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EXAMINER

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2797

13

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

08/466,894

Applicant(s)

HARVEY et al.

Examiner

Andrew Falle

Group Art Unit

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☒ Responsive to communication(s) filed on Jun 2, 1999

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 2-303 is/are pending in the application

Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 2-303 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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CMB 8.1

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DETAILED ACTION

I. Introduction:

1. This action is in response to the amendments filed 7/27/98, 3/24/99, and 6/2/99. Remarks that exist for pending claims 2 to 303, have been considered but are moot in view of the new ground(s) of rejection.

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II. Overview.

As a preliminary matter, it is understood that applicants and the PTO have agreed to consolidate co-pending applications from ~329 in number to ~78 in number wherein applicants “claim” priority benefit under Section 120 for ~41 of the 78 to 9/11/87 ('87), and for 37 of the 78 to 11/3/81 ('81). However, to date, applicants have failed to complete the consolidation. For example, with respect to the group of 37 of 78, examiner finds consolidation papers for **only** 23 of 37.¹ Applicants must understand that their failure, to date, to complete the consolidation has contributed to delay in prosecution; i.e. noting that the agreement to consolidate was made over an **entire year ago**.² Clarification is requested as to when applicants intend to carry forth completion of their agreement. In any event, Office actions have been mailed on 2 consolidated groups³, and the remaining now follow.

Section 112.

Written description.

¹See Appendix B for examiners count of cases having consolidation papers. It is noted, for ex, that “group” 8 fails to map the claims, and hence is not within consonance of agreement and therefore is recognized as an amendment to an outstanding office action.

²For illustration, it is noted that the co-pending application no. 08/474,964 (see “group” 30 in Appendix B) consolidation was received 3/9/99. Therein, on page 9 (paper 20), applicants allege “In consonance with the agreement...Applicants...join the claims”, etc.

³Groups 27 and 33 in Appendix B, or co-pending applications 08/470,571, and 08/487,526, respectively.

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In the Summer/Fall '97 applicants' responded to first Office actions which had been mailed in each of the group of 37 of 78 co-pending applications. In each response applicants claimed the benefit of priority, under Section 120, to 11/3/81. Being such, when applicant responded to Section 112 written description rejections in these responses, applicants improperly referred to the *parent* patent 4,694,490, ('490) disclosure as "the specification". More specifically, it appears that applicant's have mistaken the patent '490 specification for the instant specification. The examiner points out that the instant specification is not the '490 specification is because applicants failed to incorporate-by-reference the '490 ('81) specification into the later '87 specification first disclosed on 11/9/87. Because they have apparently treated the patent '490 as the instant specification, applicants seem to have:

- generally ignored the instant specification in their responses;
- drafted the pending claims with respect to "*only*" the '81 disclosure; and
- generally responded to Section 112 written description rejections by citing sentences passages, and paragraphs, that *do not exist* in the instant disclosure.

In view of the above, all pending claims are rejected under Section 112's written description requirement because each claim has been raised into doubt by the manner in which applicants have responded to previous Section 112 rejections. In order to overcome this rejection, applicants are respectfully requested to:

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- identify any disclosure *common* to both the parent '490 and the instant disclosure, and then demonstrate that there is full support under Section 112 for each of the pending claims, using *only* the identified common subject matter. When identifying the common subject matter, applicants must be *very careful not to* identify as being common: 1) any and all subject matter from the 11/3/81 disclosure that was omitted when making the 9/11/87 disclosure; and 2) any and all subject matter that was added to the 11/3/81 disclosure when making the 9/11/87 disclosure. The consequence of such improper identification of common subject matter would, of course, be a failure to demonstrate Section 112's written description requirement.

As explained above, because applicants have apparently mistaken the parent '490 disclosure for the instant disclosure, Section 112 written description doubt has been raised by applicants. As a consequence, *examiner respectively requests applicants demonstration support for at least every pending claim* in the manner described above. However, it is likewise requested that applicants demonstrate support for *each* phrase enumerated in the Section 112 written description rejection below.

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Enablement:

Moreover, terms and their derivatives such as 'digital' and 'data', *inter alia*, are considered to require undue experimentation in view of the *instant* disclosure. Therefore, pending claims reciting the terms and derivatives of the terms are rejected under Section 112's enablement requirement.

Best Mode:

Notwithstanding, for the reasons, *inter alia*, explained below in the corresponding rejection below, pending claims are rejected under Section 112's best mode requirement.

Second Paragraph.

Further, because applicants have apparently mistaken the parent '490 disclosure for the instant disclosure, pending claims are rejected under Section 112's second paragraph for reasons, *inter alia*, including: failure to claim the invention; failure to recite terms whose meets and bounds can be determined *from a reading of the instant disclosure*. This rejection may be withdrawn when applicants *accurately* explain the specific meaning of every pending claim term when there are different descriptions for such terms from '81 and '87 including, *inter alia*: programming; data; information; instruction; signal; and every other term having a difference in respective '81 and '87 descriptions.

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Double Patenting.

Pending claims are rejected under the doctrine of judge made double patenting as they would extend obvious variations of already enjoyed monopolies. Pending claims are not distinct and independent from patents: 5,335,277 ('277); 5,233,654 ('654); 5,109,414 ('414); 4,965,825 ('825); 4,704,725 ('725); 4,694,490 ('490).

See Appendix A.

Notwithstanding, applicants have recognized his patents have been involved in litigation. Examiner believes it is *critical* that applicants provide claim constructions for his patents from those litigations, for obvious type double patenting examination, as they are understood to be directly relevant to the instant rejections.

The Administrative requirement is maintained.

Sections 102 and 103.

For the benefit of compact prosecution, examiner addresses the pending claims as thoroughly as possible with other prior art in rejection, even though applicants have apparently mistaken the parent '490 disclosure for the instant disclosure.

However, because the '490 parent disclosure is very brief, i.e. approximately 11,800

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words, the examiner addresses the pending claims to the *limited* extent they are *conceptually* recognized by examiner in *embodiments previously identified by applicants* when mistaking the parent '490 disclosure for the instant disclosure in response to, *inter alia*, previous Section 112 written description rejections. That is to say that, in most instances, the pending claims are *grouped conceptually* and are addressed by application of prior art according to their conceptual grouping.

Although applicants, in fact, omitted most sentences, paragraphs, and figures, of the parent '490 disclosure when making the later 9/11/87 (co-pending parent 08/113,329)('329) disclosure (i.e. corresponding to the instant disclosure), they allege to have incorporated-by-reference the documents, paper 21 of '329, *inter alia*, into page 1 of the 9/11/87, disclosure when making the instant disclosure on ~6/95 (see respective preliminary amendments accompanying Section 120 filings of co-pending applications). Section 120, however, does not permit the apparent hiatus of subject matter from 9/11/87 to '95 (i.e. the instant filing date) for the priority benefit under Section 120 to the 11/3/81 disclosure. Hence, while the added subject matter is not impermissible new matter, it is *anticipated* by the '490 and '725 patents since, at best, it only gets the '95 effective filing date.

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Oath or Declaration.

The instant disclosure appears, *in fact*, to be a continuation-in-part, because, by applicants' own indication, the intention of the preliminary amendment's 'incorporation-by-reference' statement, was for incorporating all documents of the '329 parent *into* page 1 of the instant disclosure (applicants should refer to the related remarks, *they have provided*, on the record).

Objection to the Specification.

The instant specification is objected to because applicants are changing the instant disclosure, some +18 years after making the '81 disclosure and some +12 years after making the '87 disclosure.

I.D.S.

Examiner specifically requests applicants identify the most relevant art, in the information disclosure statements, to the pending claims. Examiner believes identification of such art is critical to determining patentability.

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III. Section 112-2 issues (in detail):

2. The disclosure is objected to because of the following informalities:

1) In claim 8, line 6, it appears that the term “which” should be deleted.

Appropriate correction is required.

2) In claim 15, line 2, it appears that “stores” should read --store--.

3. Claims 2-303 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1) In claim 2, line 9, “said signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to the inputted signal of line 3 or to the transmitted signal of line 8. Similar clarification is needed for “said signal” in line 10.

2) In claim 2, line 9, “an identifier associated with said signal” is indefinite because it suggest that the recited method actually requires a step for associating an identifier with the signal yet the method claim fails to positively recite the implied step. Clarification is required.

3) In claim 3, line “said information transmission” has multiple antecedent basis and is indefinite because it is not clear if it refers back to the received information transmission of line 4 or to the communicated information transmission of lines 4 and 5.

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4) In claim 3, line 6, the recitation “which is effective to control” it appears to suggest that the method, as recited, requires a step of “controlling” the plurality of receivers in the manner that is recited in lines 6-9 yet claim 3 fails to positively recite the suggested “controlling” step as is required of a method claim. Being such, it is not clear whether the recitations of claim 3 actually require a recited plurality of receiver station to be controlled by the control signal in the manner that is set forth in lines 6-9. Additionally, it is not clear how a control signal which is “effective to control” differs from a control signal which actually “controls”? Clarification of the above is required. Similar clarifications are also required with respect to lines 5-9 of claim 8.

5) In claim 3, line 14, it appears that the term “said information transmission” should be changed to read “said communicated information transmission” if the recitation is to have clear and proper antecedent basis.

6) In claim 3, line 14, “said control signals” has multiple antecedent basis and is indefinite because it is not clear whether it refers back to the received control signals of line 6 or to the communicated control signals of line 13. Clarification is required.

7) As disclosed, the “first” receiver station recited in line 6 of claim 3 appears to refer to the “intermediate” station of the disclosure while the recited “second” station of line 7 appears to refer to the disclosed “ultimate receiver” station of the disclose. If this is position not true, then clarification is needed to show to what “station” operations the recited “first” and “second” actually refer. If this position is correct, then the limitations

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of claim 3 appear to be misdescriptive in that the disclosure does not appear to have described a single control signal which is effective to control a “first” and a “second” receiver in the manner that is recited in claim 3. Clarification is needed.

8) In line 3 of claim 4, “said control signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to the received control signal recited in line 6 of claim 3, to the communicated control signal recited in line 13 of claim 3, or to the stored control signal recited in lines 14 and 14 of claim 3. Clarification is required. Similar clarification is needed for the term “said control signal” as recited in line 6 of claim 4.

9) In line 3 of claim 4, “said information transmission” has multiple antecedent basis and is indefinite because it is not clear if it refers back to the received information transmission recited in line 4 of claim 3, to the communicated information transmission recited in lines 4 and 5 of claim 3, or to the stored information transmission recited in lines 14 and 15 of claim 3. Clarification is required. Similar clarification is needed for the term “said information transmission” as is recited in line 4, lines 5-6, line 9, line 11, line 12, line 16, lines 16-17, line 26, line 29, line 30, line 33, lines 33-34, and line 40 of claim 4.

10) In line 2 of claim 5, “said information transmission” has multiple antecedent basis and is indefinite because it is not clear if it refers back to the received information transmission recited in line 4 of claim 3, to the communicated information transmission

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recited in lines 4 and 5 of claim 3, or to the stored information transmission recited in lines 14 and 15 of claim 3. Clarification is required.

11) In claim 8, line 10, “encoding said second information transmission” is confusing because it is not clear if the encoding step is encoding the “the received second information transmission” into the control signal or if the encoding step is encoding some other occurrence of the “second information transmission”; i.e. is the “second information transmission” sequentially received and encoded or is the “second information transmission” received and encoded in parallel processes? Clarification is needed.

12) The recitation “directs a processor...” in line 2 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “directing a processor” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

13) The recitation “generate a video display...” in line 3 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “generating a video display” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

14) The recitation “that is presented...” in line 3 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “presenting

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the video display” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

15) The recitation “said second control signal having effect...” in line 9 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “using the control signal to effect...” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

16) The recitation “query a remote station...” in line 9 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “querying a remote station” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

17) The recitation “receive said supplemental data...” in line 9 of claim 9 is confusing and indefinite because it seems to suggest that the recited method actually requires a step of “receiving supplemental data” yet such a step has not been positively recited as required of a method claim; i.e. a method claim must positively recite all of the steps which comprise the method.

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18) In line 8 of claim 12, the term “one of” appears to be misdescriptive in the system that was originally disclosed appears to have required the outputting of “both of” the audio and video signals. Clarification is needed.

19) In claim 13, line 3, the term “capable of” is confusing because it is not clear if the computer actually performs the recited processing of the data or only has the potential of performing the recited processing. Clarification is needed.

20) In claim 14, line 3, “said data” has multiple antecedent basis and is indefinite when referred back to the identification data of line 2 and to the “data” of claim 13.

21) Claim 14 appears to be a method claim and appears to suggest that the method requires a further step of embedding: i.e. note the functional recitation of “is embedded” in line 2. However, the claim fails to positively recite said “embedding” step as is required of a method claim’s format. Clarification is needed.

22) Claim 15 appears to be a method claim and appears to suggest that the method requires a further step of storing one or more instruct signals at two of a plurality of receiver stations: i.e. note the functional recitation of “stores” in line 2. However, the claim fails to positively recite said “storing” step as is required of a method claim’s format. Clarification is needed.

23) Claim 16 appears to be a method claim and appears to suggest that the method requires a further step of responding to at least one control signals at different times: i.e. note the functional recitation of “responds” in line 2. However, the claim fails to

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positively recite said “responding” step as is required of a method claim’s format.

Clarification is needed.

24) In the recitation “receiving said data” in line 2 of claim 17, ‘said data” has multiple antecedent basis when referenced back to claim 13. More specifically, the recitation “said data” is indefinite because it is not clear if it refers back to “said received data” recited in line 7 of claim, said “transmitted data” of line 10 or lines 13 and 14, or to some other version of “said data”. Clarification is required.

25) Claim 18 appears to be a method claim and appears to suggest that the method additionally requires: 1) a step for controlling a first of said first programming receiver stations with said at least one control signal (i.e. note the “is effective...to control” recitation of line 11; and 2) a step for controlling a second of said first programming receiver stations with said at least one control signal (i.e. note the “is effective...to identify” recitations of lines 11-13); 3) a step of transmitting mass medium programming from said first station (note the “to transmit” recitation of line 12); and 4) steps of identifying and processing portions of the transmitted mass medium programming (note the “to identify and process” recitation of line 13). However, the claim fails to positively recite these steps as is required of a method claim’s format. Clarification is needed.

26) Claims 19-22 require similar clarifications as those which were set forth above for claims 14-17.

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27) In claim 23, line 13, "is addressed" is indefinite because it does not have proper antecedent basis: i.e. a step of addressing has not been previously recited and control signals do not inherently contain addresses. Clarification is needed.

28) Claim 23 is indefinite because it contains functional recitations which are suggestive of steps yet the claims fail to positively recite the steps that are suggested. Therefor, it is unclear whether or not the steps are required to meet the limitations of the claim; i.e. 1) "to control" in line 7 clearly suggests that a controlling step is required however the claim fails to positively recite said controlling step; 2) "to transmit" in line 8 suggests that a transmitting step is required; 3) "to control" in line 8 clearly suggests that a step of controlling is required; 4) "to identify and process" in line 9 clearly suggests that a step of identifying and a step of processing is required; etc,... Clarification is needed.

29) Claim 24 appears to be a method claim and appears to suggest that the method requires a further step of "embedding" a portion of a control signal and a designation signal into the non-visible portion of a television signal, multichannel cablecast, or multichannel broadcast: i.e. note the functional recitation of "is embedded" in line 2. However, the claim fails to positively recite said implied "embedding" step as is required of a method claim's format. Clarification is needed.

30) Claim 25 appears to be a method claim and appears to suggest that the method requires a further step of "communicating" a selected portion of information to/from a transmitter: i.e. note the functional recitation of "communicated" in line 10. However,

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the claim fails to positively recite said implied “communicating” step as is required of a method claim’s format. Clarification is needed.

31) In claim 25, lines 10 and 11, the first occurrence of “said transmitter” has no antecedent basis.

32) In claim 25, lines 10 and 11, the second occurrence of “said transmitter” appears to be misdescriptive because, as disclosed, the two recitations of a “transmitter” actually appear to refer to different transmitters. Clarification is needed.

33) In view that claim 25 is a method claim which must be formatted so as to positively recite all of the steps which comprise the method, it appears that “to determine” in line 13 should be changed to read --determining--. Similar clarifications are needed throughout the pending claims.

34) In claim 25, line 15, “said network” has multiple antecedent basis when referenced back to the “network” of line 1 and the “output network” of line 7.

35) In claim 25, line 13, “said signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to said inputted signal of line 4 or to said transmitted signal of line 9. Clarification is needed.

36) In claim 26, line 10, “said signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to said inputted signal of line 4 or to said transmitted signal of line 9. Clarification is needed.

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37) In claim 27, line 1, “said control signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to said received control signal that was recited in line 6 of claim 3, to said communicated control signal which was recited in line 13 of claim 3; to said stored control signal of line 14 of claim 3, or to some other control signal. Clarification is needed. Similar clarifications are needed throughout the pending claims.

38) Claim 27 seems to be a method claim which must be formatted so as to positively recite all of the steps which comprise the method. Thus, the functional language recited in the claim should be put into a “step” format; i.e. “controls”, “to compare”, “to transmit”, etc... Similar clarification is needed in claims 28-30, 32-35, 37-40, 42-45. Similar clarifications are needed throughout the pending claims.

39) In claim 28, lines 1 and 2, the statement “wherein said control signal transmits said information signal” appears to be misdescriptive because it is not understood how a control signal can transmit an information transmission; i.e. the control signal can only cause the information transmission to be transmitted. Clarification is needed. Similar clarification is needed in claims 29, 30, 32-35, 37-40, 42-45.

40) In claim 28, line 1, “said control signal” has multiple antecedent basis and is indefinite because it is not clear if it refers back to said received control signal that was recited in line 6 of claim 3, to said communicated control signal which was recited in line

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13 of claim 3; to said stored control signal of line 14 of claim 3, or to some other control signal. Similar clarifications are needed in claim 29, 30, 32-35, 37-40, 42-45.

41) In claim 28, line 3, "said information transmission" has multiple antecedent basis and is indefinite because it is not clear if it refers back to the information transmission previously recited in claim 28 or to one of the various information transmissions which was recited in claim 3. Similar clarifications are needed in claim 29, 30, 32-35, 37-40, 42-45.

42) In claim 31, line 12, "said signal" has multiple antecedent basis and is indefinite because it is not clear if it refers back to said inputted signal of line 4; to said transmitted signal of line 10; or to some other state of the signal. Similar clarifications are needed throughout the claims.

43) Claim 31 seems to be a method claim which must be formatted so as to positively recite all of the steps which comprise the method. Thus, the functional language recited in the claim should be put into a "step" format; i.e. "based on a comparison" in lines 10 and 11; "for gathering" in line 13; etc... Similar clarifications are needed for claims 32-35, 37-40, 42-45.

44) Claim 32 appears to be misdescriptive because it is not clear how a "control signal" outputs an identifier. More specifically, a **signal**, e.g. the control signal, may contain an identifier that is outputted or may cause an identifier to be outputted but it can

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not output an identifier by itself. Similar clarifications are needed in claims 33-35,37-40, 42-45.

45) In claim 36, line 10, "said portion" has multiple antecedent basis and is indefinite because it is not clear if it refers back to the portion that was recited in line 7 or the portion that was recited in line 8. Clarification is needed.

46) In claim 36, lines 12-15, all three occurrence of "said signal" are confusing and appear to be misdescriptive because only the recited "portion(s)" of said signal appear to be transmitted to the receiver station and thus, it would appear, only said transmitted "portion(s)" would be processed to gather statistics ...; i.e. not the entire "signal" as appears to be currently required by lines 12-15. Clarification is required.

47) Claim 36 seems to be a method claim which must be formatted so as to positively recite all of the steps which comprise the method. Thus, the functional language recited in the claim should be put into a "step" format; i.e. "based on a comparison" in lines 11; "to gather" in line 13; etc...

48) In claim 41, line 10, "one of said signal" has no antecedent basis and is indefinite. Should the term read --one of said signals--? Clarification is needed.

49) The recitations of claim 48 only establish a relationships: a) between "an identifier" and a recited "signal" (note lines 3); and b) between a "schedule" and a recited "plurality of signals"(note line 4). The recitations of claim 48 becomes confusing and indefinite when it introduces limitations which, at least implicitly, refers to hybrids of the

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established relationships; i.e. 1) reference to an apparent relationship between the recited “signal” and the recited “schedule” (see lines 8 and 9); and 2) reference to an apparent relationship between the recited “plurality of signals” and the recited “identifier” (see line 10). Clarification is needed.

50) It is noted that all claims, including 49-303, required clarification which are similar to those which were exemplified above.

Applicant is asked to review all of the claims and to correct any section 112-2 problems which are similar to those which have been exemplified above.

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IV. Claim Rejections - 35 U.S.C. § 112-1 (in detail):

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 2 to 303, are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

1) Introduction:

A) The problems:

1. As is clearly evident when one reads applicants' '87 disclosure, significant effort was made on the part of applicants to explicitly and clearly define much of the terminology that was used in the original '87 written description. As is also clearly evident when one reads applicant's '87 disclosure, significant effort was made on the part of applicant to divide/organize the original written description into distinct chapters/sections wherein each of the distinct chapters/sections focussed on a specific system structure or a specific system operation. Not less than 10 "examples" of specific system operations were explicitly described in the

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written description. Many these at least 10 “examples” appear to have comprised numbers of, for the lack of a better term, *sub-examples*. While the examiner acknowledges that many of these described “examples”/*sub-examples* build on previously described “examples”/*sub-examples* to the extent that they incorporate features from previously described “examples”/*sub-examples*, the examiner does not agree with the suggestion that the ‘87 disclosure provided clear and/or explicit teachings of combining different ones of the “examples”/*sub-examples* into, for the lack of a better term, *super combinations*; i.e. “super combinations” which, as seems apparent from the diverse citations found applicants’ own submitted claim charts, now appear to be claimed. Locating these claimed “super combinations” in applicant’s original disclosure, even if assumed to be properly supported, is made even more difficult by the fact that applicant has elected to use terminology which differs from the terminology for which he made clear efforts to originally define. Because of the above, the examiner maintains that it is important for the clarity of the record for applicant to show exactly where the currently pending claims derive the support that is required under section 112-1; i.e. the examiner has found it difficult to impossible to locate the required support on his own.

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2. From the record, it appears that applicant is now attempting to present claims which include limitation which are narrower in scope and/or are more specific than the original disclosure from which, applicant alleges, they derive support. For example, where the original disclosure might have taught implementing the system using any of a plurality of listed devices/techniques, applicant now present claims which recite implementations comprised of “at least two” of the listed devices/techniques, “one or more” of the listed devices/techniques; “at least one” of the listed devices/techniques; “any two” of the listed devices/techniques of, etc,... In such cases, even if the ranges of devices/techniques which are now listed in the claims represent obvious implementations of that which was originally disclosed, they are not properly supported by the original disclosure under 112-1. Specific examples of this problem will be addressed in detail below.

3. Throughout the 302 pending amended claims, applicant has elected to use alternative recitations for the apparent purpose of drafting claims which explicitly cover/recite a plurality of alternative embodiments. Note that this approach is vastly different than drafting a claim that is simply

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generic. For example: 1) in claim 108, the “one of a switch or a computer” recitations of lines 4 and 7 explicitly cover/recite at least two species of invention including a first embodiment that is implemented with a computer and, in the alternative, a second embodiment of invention that is implemented with a switch; and 2) in claim 108, the “two of video, audio, and data programming” recitation of lines 5 and 6 explicitly covers/recites at least three species of invention which include a first embodiment comprised of the video and the audio programming, a second embodiment comprised of the video and the data programming, and a third embodiment comprised of the audio and the data programming. Taken together, these two sets of alternative recitations explicitly cover/recites at least six different species of alleged invention. Given the above, it is maintained that applicant must not only show that the original disclosure provided the support that is required under 112-1 for each of the alternative recitation themselves, but applicant must also show that the original disclosure provided the support that is required under 112-1 for all of the species of alleged invention which are explicitly covered/recited by combines alternative language [see section “108)” of this paragraph for the showing under 112-1 that is needed for claim 108 in the example which was described above].

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4. The examiner notes that applicant's use of alternative recitations in the claims seems to have created further problems/confusion under 112 -1 and 112-2 in that many of the terms that are used in broader claims appear to comprise a first meaning when read back onto the original disclosure whereas "the same terms", as found in narrower dependant claims, appear to have different and more limited meanings when interpreted on the same disclosure. This apparent inconsistent use of the same terminology, combined with applicant's continued use of terminology which does not have clear antecedent basis when read back on the original disclosure, evidences why there is a urgent need on the part of applicant to point out exactly where the original disclosure provided support for the currently claimed terminology under 112-1; i.e. the specific clarifications which are required under 112-1 will be addressed in greater detail below. In the past, applicant's representative has been quick to point out that it is the duty of the examiner to read and understand the original disclosure and to locate support for the pending/presented claims. The examiner continues to respond to this issue by indicating that he has read the entire written description at least two times and, while he believes he understands the written description, he is unable to jump the hurdle that is required to connect the limitations of the pending claims with the support which

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applicant alleges can be found in his original disclosure. Applicant's assistance is again requested.

B) Applicants continue to allege that the pending claims 2-303 find support in the original 81' disclosure (i.e. citations to the 81' disclosure will be made via references to applicants 4,704,725 patent). The examiner disagrees with applicants' allegation noting the following *specific examples*:

1. As originally described in the 81' disclosure, the recited "schedule" that was supplied/inputted to the intermediate station explicitly comprised "the cable television system's complete programming schedule" which can be used to determine "when and on what channel or channels" programming is to be transmitted [SEE lines 22-23 and 39-44 of column 11 in the 4,704,725 patent]. In contrast, said "schedule" as is recited in the currently pending claims is now explicitly inclusive of something less than said originally disclosed "complete programming schedule". To this point, lines 4-7 of claim 2 now explicitly states that said schedule needs only comprise "at least one of": a time to transmit a signal; and one of a frequency and output network on which to transmit said signal. Clearly, said "complete programming schedule" of the original 81' disclosure does

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not support the recited "schedule" of the scope which is now claimed in claim 2! While this problem has been addressed with respect to the recitations of claim 2, similar/corresponding problems exist throughout the 302 pending claims of the current application.

2. As originally described in the 81' disclosure, the programming that is inputted to the intermediate station was described as comprising "identification signals" which were compared with the earlier described "complete programming schedule" so as to determine when and on what channel the programming should be transmitted [see lines 39-44 of column 11 in the 4,704,725 patent]. Likewise, the original 81' disclosure also described downstream signal processors 71,96 (i.e. the recited "receiver station(s)" of the pending claims ?) which were described as operating to monitor and record all programming transmitted by the cable system [see lines 47-58 in column 12 of the 4,704,725 patent]. While it **might** be clear from the 81' disclosure that said signal processors 71,96 monitored and recorded the transmitted programming by detecting signals which were carried in the programming, it is certainly not clear from the 81' disclosure as to whether the signals which were used to detect the

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programming via said signal processors 71,96 were the same as, or were different from, the “identification signals” which were compared with the schedule on the receiving side [i.e. those previously described in lines 39 and 40 in column 11 of the 4,704,725 patent]. For all one knows, from the 81' disclosure, the “identification signals” which were compared with the schedule could have been stripped via signal strippers 81-89 of figure 3c and new signals could have been inserted via signal generators 82-90 of figure 3c for detection via said signal processors [note lines 37-43 in column 12 of the 4,704,725 patent]. Being such, specific recitations in the pending claims which require the signals detected by the processor to be the same as the identification signals which were compare with the schedule simply find inadequate support in the broader teachings of the original 81' disclosure. To this point, applicant's attention is directed to the “identifier” as is currently recited in lines 3-15 of claim 36. Again, while this problem has been addressed with respect to to the recitations of claim 36, similar/corresponding problems exist throughout the 302 pending claims of the current application.

C) Applicant is again asked to review all of the pending claims and to address and correct all of the section 112-1 problems which are similar to those exemplified in part “A)-C)” of this section; i.e. applicant is asked to review all

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pending claims to be sure that the original disclosure provided the support that is required under 112-1 for each and every recitation of every pending claim.

2) With respect to claim 2, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “code” of line 4 which designated only one of the recited “time” and the recited “frequency and output network”. It is noted that the showing of an originally disclosed “code” which was described as having designated **both** of the recited “time” and the recited “frequency and output network” would not provide the required support for the current recitation because of the “at least one” terminology used in line 4; i.e. in such a case, the “at least one” limitation now represents a positive recitation of a range of configurations whose range was not originally described by the original disclosure. **The examiner maintains such to be true wherever and whenever the “at least one” terminology is used in the claims;** and

2. The recited “code” of line 4 which designated both of the recited “time” and the recited “frequency and output network”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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1. The active step of “selecting”, as is recited in line 9, in which one of the code and an identifier associated with said signal is selected.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

inputting a signal and a transmission schedule associated with said signal, said transmission schedule including code designating said signal and at least one of:

(1) a time at which to transmit said signal; and

(2) one of a frequency and an output network on which to transmit said signal;

transmitting said signal according to said transmission schedule;

selecting one of said code and an identifier associated with said signal;

and

logging transmission of said signal.

Clarification of the above is required.

3) With respect to claim 3, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “storage device” of line 5: a) to which a received information transmission is communicated (see lines 4-5); b) to which the communicated information transmission is stored (see lines 14 and 15); and c) at which the recited control signal is stored (see lines 14 and 15);
2. The recited “control signal” of line 6 which is effective: a) to control a first of a plurality of receiver stations to transmit an information transmission which was received and communicated to a storage device; and b) to control a second of said plurality of receiver stations to identify and process at least a portion of the transmitted information transmission.
3. The recited “group” of lines 10-12 consisting of the recited “time” and the recited “storage location” from which “one” is actively selected;
4. The recited “time” of line 11 at which to communicate the recited control signal;

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5. The recited “storage location” to which to communicate the recited control signal;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. An active step of “selecting”, as is recited in line 10, in which one of a “time” and a “storage location” is selected.
2. An active step of “storing”, as is recited in lines 14 and 15, in which both the information transmission and the control signal is stored at a storage device: a) wherein the stored control signal is/was communicated at the selected time; b) wherein the stored control signal is/was communicated to the selected storage location; **and** c) wherein the stored/communicated control signal is/was “effective to control” the first and second receiver in the manner recited in lines 6-9.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

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receiving an information transmission and communicating said information transmission to a storage device;

receiving a control signal which is effective to control a first of said plurality of receiver stations to transmit said information transmission and to control a second of said plurality of receiver stations to identify and process at least a portion of said transmitted information transmission;

selecting one of the group consisting of:

(1) a time at which to communicate said control signal; and

(2) a storage location to which to communicate said control signal;

communicating said control signal based on said step of selecting; and

storing said information transmission and said control signal at said storage device.

Clarification of the above is required.

4) With respect to claim 4, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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B) Where each of the following recited steps was described in the disclosure as originally filed:

embedding said control signal in said information transmission;

embedding a code in said information transmission that enables a processor to control a presentation of mass medium programming contained in said information transmission in accordance with said control signal;

communicating a program unit identification code to said storage device and storing said program unit identification code at a storage location associated with said information transmission;

communicating to and storing at said storage device some information to evidence one of an availability, use, and usage of one of said information transmission and mass medium programming contained in said information transmission at a user station;

communicating to and storing at said storage device a second control signal which is effective at a user station to generate some output to be associated with one of said information transmission and mass medium programming contained in said information transmission;

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communicating to and storing at said storage device a second control signal which is effective to generate some output to be associated with one of a product, service, and an information presentation;

communicating to and storing at said storage device a second control signal which is effective to display one of a combined and a sequential presentation of a mass medium program and a user specific datum;

communicating to and storing at said storage device a second control signal which is effective to process a user reaction to mass medium programming contained in said information transmission;

communicating to and storing at said storage device a second control signal which is effective to one of communicate to a remote station a query in respect of information to be associated with said information transmission, and to enable display of mass medium programming contained in said information transmission;

communicating to and storing at said storage device a second control signal which is effective to control a user station to receive information to supplement one of said information transmission and mass medium programming contained in said information transmission;

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communicating to and storing at said storage device a second control signal which is effective to process a digital signal which contains television programming; and

communicating to and storing at said storage device one of a code and a datum to serve as a basis for one of enabling an output device to display at least a portion of mass medium programming contained in said information transmission, and for enabling a processor to process executable code.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

1. Claim 4, as currently drafted, requires that the method of claim 3 to be generic for each of the wide range of steps that is now being listed within claim 4. For each step that is recited in claim 4 [see part “B)” of this section], clarification is needed to show where the step was described within a method comprising all of the steps which are now recited in claim 3 [see section “3)” of this paragraph].

Clarification of the above is required.

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5) With respect to claim 5, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

B) Where the original disclosure described the method that is recited in claim 3 [see section “3)” of this paragraph] wherein the recited method further included the step of storing some information at said storage device wherein the stored information included each of the following:

- (1) a title of a television program;
- (2) a proper use of programming;
- (3) a transmission station;
- (4) a receiver station;
- (5) a network;
- (6) a broadcast station;
- (7) a channel on a cable system;
- (8) a time of transmission;
- (9) a identification of an instruct signal;
- (10) a source or supplier of data;
- (11) a distributor or an advertisement; and
- (12) an indication of copyright.

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6) With respect to claim 6, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. It is not clear where the original disclosure described the recited “group” of line 3 wherein the recited “group” consisted of each of the following forms of datum:

(1) a datum that identifies a unit of computer software in said information transmission;

(2) a datum that specifies some of a way to instruct receiver equipment what specific programming to one of:

>select to one of play and record other than that immediately at hand;

>load on one of player and recorder equipment;

>instruct when and how to one of play and record other than immediately;

>instruct how to modify said specific programming;

>instruct one of what equipment, channel and channels to transmit said specific programming on;

>instruct when to transmit said specific programming; and

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>instruct how and where to one of file, refile and
dispose of said specific programming;

(3) a datum that designates an addressed apparatus;

(4) a datum that specifies one of where, when, and how to
locate a signal;

(5) a datum that informs a processor of a fashion for
identifying and processing a signal;

(6) a datum that is part of a decryption code;

(7) a comparison datum that designates a communication
schedule.

B) Where each of the following recited steps was described in the disclosure as
originally filed:

1. It is not clear where the original disclosure described the recited “step
of selecting”, as is recited in line 3, wherein the recited step of selecting
selected datum from the recited “group” of datum consisting of each of:

(1) a datum that identifies a unit of computer software in
said information transmission;

(2) a datum that specifies some of a way to instruct receiver
equipment what specific programming to one of:

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- >select to one of play and record other than that immediately at hand;
- >load on one of player and recorder equipment;
- >instruct when and how to one of play and record other than immediately;
- >instruct how to modify said specific programming;
- >instruct one of what equipment, channel and channels to transmit said specific programming on;
- >instruct when to transmit said specific programming; and
- >instruct how and where to one of file, refile and dispose of said specific programming;

- (3) a datum that designates an addressed apparatus;
- (4) a datum that specifies one of where, when, and how to locate a signal;
- (5) a datum that informs a processor of a fashion for identifying and processing a signal;
- (6) a datum that is part of a decryption code;
- (7) a comparison datum that designates a communication schedule.

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C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

selecting one from the group consisting of:

(1) a datum that identifies a unit of computer software in said information transmission;

(2) a datum that specifies some of a way to instruct receiver equipment what specific programming to one of:

>select to one of play and record other than that immediately at hand;

>load on one of player and recorder equipment;

>instruct when and how to one of play and record other than immediately;

>instruct how to modify said specific programming;

>instruct one of what equipment, channel and channels to transmit said specific programming on;

>instruct when to transmit said specific programming; and

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>instruct how and where to one of file, refile and
dispose of said specific programming;

(3) a datum that designates an addressed apparatus;

(4) a datum that specifies one of where, when, and how to
locate a signal;

(5) a datum that informs a processor of a fashion for
identifying and processing a signal;

(6) a datum that is part of a decryption code;

(7) a comparison datum that designates a communication
schedule; and

embedding said selected one in said information transmission.

7) With respect to claim 7, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as
originally filed:

1. The recited “storage device” and the recited “file storage medium” that
is recited in lines 1-4.

2. The recited “group” of second control signals line 6 wherein the
recited “group” consisted of each of the following signals:

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- (1) a switch control signal;*
- (2) a timing control signal;*
- (3) a locating control signal;*
- (4) an instruct-to-contact signal that designates a remote receiver station;*
- (5) an instruct-to-transfer signal that designates a unit of broadcast or cablecast programming;*
- (6) an instruct-to-delay signal that designates a unit of broadcast or cablecast programming;*
- (7) an instruct-to-decrypt or instruct-to-interrupt signal that designates a unit of programming and a way to decrypt or interrupt;*
- (8) an instruct-to-enable or instruct-to-disable signal that designates an apparatus;*
- (9) an instruct-to-record signal that designates a broadcast or cablecast program;*
- (10) an instruction signal that controls a multimedia presentation;*
- (11) an instruction signal that governs a broadcast or cablecast receiver station environment;*
- (12) an instruct-to-power-on signal that designates a receiver;*

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(13) an instruct-to-tune signal that designates a receiver or a frequency;

(14) an instruct-to-coordinate signal that designates two apparatus;

(15) an instruct-to-compare signal that designates a news transmission or a computer input;

(16) an identifier signal that causes a computer to instruct a plurality of tuners each to tune to a broadcast or cablecast transmission;

(17) an instruct-to-coordinate signal that designates two units of multimedia information and one of: (1) an output time and (2) an output place;

(18) an instruct-to-generate signal that designates an output datum;

(19) an instruct-to-transmit signal that designates a computer output;

(20) an instruct-to-overlay signal that designates a video image;

(21) an instruct-that-if signal that designates a function to perform if a predetermined condition exists;

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(22) an instruct-to-enable-and-deliver signal that designates information that supplements a video image;

(23) an instruct-to-transmit signal that designates a computer peripheral storage device;

*(24) a code signal that designates a datum to remove or embed;
and*

(25) a signal addressed to a receiver station apparatus.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The “step of selecting”, as is recited in line 5, wherein the recited “selecting step” selected a second control signal from the recited group of second control signals wherein the recited group of second control signals comprised all of the following:

(1) a switch control signal;

(2) a timing control signal;

(3) a locating control signal;

(4) an instruct-to-contact signal that designates a remote receiver station;

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- (5) an instruct-to-transfer signal that designates a unit of broadcast or cablecast programming;*
- (6) an instruct-to-delay signal that designates a unit of broadcast or cablecast programming;*
- (7) an instruct-to-decrypt or instruct-to-interrupt signal that designates a unit of programming and a way to decrypt or interrupt;*
- (8) an instruct-to-enable or instruct-to-disable signal that designates an apparatus;*
- (9) an instruct-to-record signal that designates a broadcast or cablecast program;*
- (10) an instruction signal that controls a multimedia presentation;*
- (11) an instruction signal that governs a broadcast or cablecast receiver station environment;*
- (12) an instruct-to-power-on signal that designates a receiver;*
- (13) an instruct-to-tune signal that designates a receiver or a frequency;*
- (14) an instruct-to-coordinate signal that designates two apparatus;*

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(15) an instruct-to-compare signal that designates a news transmission or a computer input;

(16) an identifier signal that causes a computer to instruct a plurality of tuners each to tune to a broadcast or cablecast transmission;

(17) an instruct-to-coordinate signal that designates two units of multimedia information and one of: (1) an output time and (2) an output place;

(18) an instruct-to-generate signal that designates an output datum;

(19) an instruct-to-transmit signal that designates a computer output;

(20) an instruct-to-overlay signal that designates a video image;

(21) an instruct-that-if signal that designates a function to perform if a predetermined condition exists;

(22) an instruct-to-enable-and-deliver signal that designates information that supplements a video image;

(23) an instruct-to-transmit signal that designates a computer peripheral storage device;

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(24) a code signal that designates a datum to remove or embed;

and

(25) a signal addressed to a receiver station apparatus.

C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph], wherein the recited method of claim 3 further comprised the following sequence of steps :

> Selecting a second control signal, said second control signal being one from the group consisting of:

(1) a switch control signal;

(2) a timing control signal;

(3) a locating control signal;

(4) an instruct-to-contact signal that designates a remote receiver station;

(5) an instruct-to-transfer signal that designates a unit of broadcast or cablecast programming;

(6) an instruct-to-delay signal that designates a unit of broadcast or cablecast programming;

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(7) an instruct-to-decrypt or instruct-to-interrupt signal that designates a unit of programming and a way to decrypt or interrupt;

(8) an instruct-to-enable or instruct-to-disable signal that designates an apparatus;

(9) an instruct-to-record signal that designates a broadcast or cablecast program;

(10) an instruction signal that controls a multimedia presentation;

(11) an instruction signal that governs a broadcast or cablecast receiver station environment;

(12) an instruct-to-power-on signal that designates a receiver;

(13) an instruct-to-tune signal that designates a receiver or a frequency;

(14) an instruct-to-coordinate signal that designates two apparatus;

(15) an instruct-to-compare signal that designates a news transmission or a computer input;

(16) an identifier signal that causes a computer to instruct a plurality of tuners each to tune to a broadcast or cablecast transmission;

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(17) an instruct-to-coordinate signal that designates two units of multimedia information and one of: (1) an output time and (2) an output place;

(18) an instruct-to-generate signal that designates an output datum;

(19) an instruct-to-transmit signal that designates a computer output;

(20) an instruct-to-overlay signal that designates a video image;

(21) an instruct-that-if signal that designates a function to perform if a predetermined condition exists;

(22) an instruct-to-enable-and-deliver signal that designates information that supplements a video image;

(23) an instruct-to-transmit signal that designates a computer peripheral storage device;

*(24) a code signal that designates a datum to remove or embed;
and*

(25) a signal addressed to a receiver station apparatus; and

> Storing said selected second control signal in said file on said file storage medium.

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8) With respect to claim 8, it not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “first information transmission” which contained only “one of a video image and audio”;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “storing” a control signal, as is recited in line 13, wherein:
 - a) the stored control signal was derived by encoding a second information transmission; and b) the second information transmission was effective to control first and second receiver stations in the manner that is recited in lines 5-9.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- > **receiving and storing a first information transmission** containing one of a video image and audio;

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- > **receiving a second information transmission**, wherein said second information transmission which is effective to control a first of said plurality of receiver stations to transmit said first information transmission and to control a second of said plurality of receiver stations to identify and process at least a portion of said transmitted first information transmission;
- > **encoding said second information transmission into a control signal**, said control signal for controlling predetermined receiver stations of said plurality of receiver stations by processing locally stored receiver station specific data; and
- > **storing said control signal from said step of encoding.**

Clarification of the above is required.

8) With respect to claim 8, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “video image” that is recited in lines 3 and 4;
2. The “audio” that is recited in line 4;
3. The “at least a portion” of the first information transmission that is identified and processed by a plurality of receiver stations as is recited in lines 7-8;

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4. The “locally stored receiver specific data” that is recited in line 12;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving and storing a first information transmission containing one of a video image or audio” as is recited in lines 2 and 3;
2. The step of “receiving a second information transmission” as is recited in lines 5-9;
3. The step of “encoding said second information transmission into a control signal” as is recited in lines 10-12;
4. The step of “storing” the encoded second information transmission as is recited in line 13.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- > receiving and storing a first information transmission containing one of a video image and audio;
- > receiving a second information transmission, wherein said second information transmission which is effective to control a first of said plurality of receiver stations to transmit said first information transmission

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and to control a second of said plurality of receiver stations to identify and process at least a portion of said transmitted first information transmission;

> encoding said second information transmission into a control signal, said control signal for controlling predetermined receiver stations of said plurality of receiver stations by processing locally stored receiver station specific data; and

> storing said control signal from said step of encoding.

9) With respect to claim 9, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “processor” of line 2;
2. The “supplemental program material” of lines 2 and 3;
3. The “video overlay” that is presented with the video image or the audio as is recited in lines 3 and 4;
4. The “second control signal” that is recited in line 7;
5. The “user station” that is recited in line 8;
6. The “remote station” that is recited line 9;
7. The recited “group” of steps “consisting of”:

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A. storing said supplemental program material in conjunction with said control signal; and

B. storing a second control signal in conjunction with said control signal from said step of encoding, said second control signal having effect at a user station to one of query a remote station and receive said supplemental program material in one of a broadcast and a cablecast transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The functionally recited step/process of “using the encoded second information transmission to direct a processor to process supplemental program material” as is required by the recitations of lines 2 and 3.
2. The functionally recited step/process of “using the encoded second information transmission to generate a video overlay that is presented with the video image or the audio” as is required by the recitations of lines 3 and 4.
3. The functionally recited step/process of “using the encoded second information transmission at a user station to: query a remote station; and, alternatively, receive the supplemental program material in a broadcast

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transmission, and alternatively, in a cablecast transmission” as is required via lines 8-10.

4. The step of “storing” said supplemental program in conjunction with the encoded second information transmission as is required by lines 5 and 6;

5. The step of “storing” the second control signal in conjunction with the encoded second information transmission as is required by lines 7 and 8.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 8 [see section “8)” of this paragraph], and which further comprised each of the following steps:

A. storing said supplemental program material in conjunction with said control signal; and

B. storing a second control signal in conjunction with said control signal from said step of encoding, said second control signal having effect at a user station to one of query a remote station and receive said supplemental program material in one of a broadcast and a cablecast transmission.

10) With respect to claim 10, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “processor” that is recited in line 2;
2. The “video overlay that is coordinated with a video image, and alternatively, with audio” as is required by lines 2 and 3;
3. The “combined signal” that is recited in line 5;
4. The “broadcast network” and the “cablecast network” as is required in line 6;
5. The “plurality of receiver stations” that is recited in line 7;
6. The “co-located video display” that is recited in line 9;
7. The positively recited “**group**” of steps which consisted of:
 - A. transmitting a combined signal from said one of a video image and audio and said video overlay generated by said processor over a broadcast or cablecast network to a plurality of receiver stations; and
 - B. outputting said one of a video image and audio and said video overlay generated by said processor at a co-located video display.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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1. The functionally recited step/process of “using the encoded second transmission to direct a processor to generate a video overlay that is coordinated with the video image, and alternatively, with the audio” as is required via lines 2 and 3;
2. The step of “transmitting a combined signal” as is recited in lines 5-7;
3. The step of “outputting” the video image and the video overlay at the co-located display as is required via lines 8 and 9;
4. The step of “outputting” the audio and the video overlay at the co-located display as is also required via lines 8 and 9.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 8 [see section “8)” of this paragraph], and which further comprised each of the following steps:

- A. transmitting a combined signal from said one of a video image and audio and said video overlay generated by said processor over a broadcast or cablecast network to a plurality of receiver stations; and
- B. outputting said one of a video image and audio and said video overlay generated by said processor at a co-located video display.

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11) With respect to claim 11, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. Each *different* “instruction” that is respectively recited in each of lines 4, 6, 8, 11, 13, 16, 18, and 20;
2. The recited “user station” of line 4;
3. The recited “some output to be associated with the one video image, and alternatively, with the audio” of lines 4 and 5;
4. The recited “some output to be associated with a product, service, or information presentation” of lines 6 and 7;
5. The recited “product” of line 7;
6. The recited “service” of line 7;
7. The recited “information presentation” of line 7;
8. The recited “user station” of line 8;
9. The recited “mass medium program” of line 9;
10. The recited “user specific datum” of lines 9 and 10;
11. The required “combined presentation” of line 9;
12. The required “sequential presentation” of line 9;
13. The recited “user station” of line 11;
14. The recited “user reaction” of line 11;

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15. The recited “user station” of line 13;
16. The recited “remote station” of line 14;
17. The recited “query in respect of information” to be associated with only the video image, or alternatively, with the audio (i.e. see lines 14 and 15);
18. Each recited “user station” of line 16;
19. The received “information” of line 17 which supplements the video image, or alternatively, which supplements the audio;
20. The “user station” of line 18;
21. The “digital signal” of line 18;
22. The “television programming” of line 19;
23. The “user station” of line 20;
24. The “output device” of line 21;
25. The “at least one portion” of the video image that is displayed (i.e. see line 21);
26. The “at least one portion” of the audio that is displayed (i.e. see line 21);
27. The recited “processor” of line 22;
28. The recited “executable code” of line 22;

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29. The positively recited “**group**” of instructions recited in lines 3-22 wherein said positively recited group consisted of all of the following:

- (1) an instruction which is effective at a user station to generate some output to be associated with said one of a video image and audio;
- (2) an instruction which is effective at a user station to generate some output to be associated with a product, service, or information presentation;
- (3) an instruction which is effective at a user station to display one of a combined and a sequential presentation of a mass medium program and a user specific datum;
- (4) an instruction which is effective at a user station to process a user reaction to said one of a video image and audio;
- (5) an instruction which is effective at a user station to communicate to a remote station a query in respect of information to one of be associated with said one of a video image and audio and to enable display of said one of a video image and audio;
- (6) an instruction which is effective at a user station to control a user station to receive information to supplement said one of a video image and audio;

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(7) an instruction which is effective at a user station to process a digital signal which contains television programming; and

(8) an instruction which is effective at a user station to serve as a basis for enabling an output device to one of display at least a portion of said one of a video image and audio and for enabling a processor to process executable code;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving an instruction” that is recited in line 3;
2. The step of “encoding *said instruction*”, as is recited in lines 23-26, so as to translate said instruction into a second control signal;
3. The step of “storing the second control signal” in conjunction with the video image as is required in lines 27 and 28;
4. The step of “storing the second control signal” in conjunction with the audio as is required in lines 27 and 28;

C) Where the original disclosure described a method which comprised the sequence of recited in claim 8 [see section “8)” of this paragraph], and which further comprised the following steps:

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1. receiving an instruction, said instruction being one of the group consisting of:

- (1) an instruction which is effective at a user station to generate some output to be associated with said one of a video image and audio;
- (2) an instruction which is effective at a user station to generate some output to be associated with a product, service, or information presentation;
- (3) an instruction which is effective at a user station to display one of a combined and a sequential presentation of a mass medium program and a user specific datum;
- (4) an instruction which is effective at a user station to process a user reaction to said one of a video image and audio;
- (5) an instruction which is effective at a user station to communicate to a remote station a query in respect of information to one of be associated with said one of a video image and audio and to enable display of said one of a video image and audio;

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(6) an instruction which is effective at a user station to control a user station to receive information to supplement said one of a video image and audio;

(7) an instruction which is effective at a user station to process a digital signal which contains television programming; and

(8) an instruction which is effective at a user station to serve as a basis for enabling an output device to one of display at least a portion of said one of a video image and audio and for enabling a processor to process executable code;

2. encoding said instruction, said second step of encoding translating said instruction to a second control signal, said second control signal for directing one of said plurality of receiver stations to perform said specified second effect indicated by said instruction with said one of a video image and audio; and
3. storing said second control signal from said second step of encoding in conjunction with said one of a video image and audio.

12) With respect to claim 12, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “control signal” that is embedded in the non-visible portion of a television signal as is recited in line 3;
2. The “television signal” of line 3;
3. The “video image” of line 4;
4. The “audio” of line 4;
5. The “code” that is embedded in the video image as required by line 4;
6. The “code” that is embedded in the audio as required by line 4;
7. The “computer” which controls a presentation of a video image as is required in lines 5 and 6;
8. The “computer” which controls a presentation of a audio as is required in lines 5 and 6;
9. The “controller” which controls a presentation of a video image as is required in lines 5 and 6;
10. The “controller” which controls a presentation of a audio as is required in lines 5 and 6;
11. The “program identification code” of line 7;
12. The “storage location”, that is associated with the video image, into which the program identification code is stored;

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13. The “storage location”, that is associated with the audio, into which the program identification code is stored;

14. The “storage location”, that is associated with the video image, into which evidence of availability, use, and usage of the video image at the user station is stored;

15. The “storage location”, that is associated with the audio, into which evidence of availability, use, and usage of the video image at the user station is stored;

16. The “information” and the “portion of information” that is recited in line 11.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “embedding said control signal” in a television signal as was set forth in line 3;
2. The step of “embedding code in a video image” as is required in line 4;
3. The step of “embedding code in audio” as is required in line 4;
4. The step of “communicating a program unit identification code” as is recited in line 7;

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5. The step of “communicating and storing a portion of information which evidences the availability of a video image” as is required by lines 10-12;
6. The step of “communicating and storing a portion of information which evidences the availability of audio” as is required by lines 10-12;
7. The step of “communicating and storing a portion of information which evidences the use of a video image” as is required by lines 10-12;
8. The step of “communicating and storing a portion of information which evidences the use of audio” as is required by lines 10-12;
9. The step of “communicating and storing a portion of information which evidences the usage a video image” as is required by lines 10-12;
10. The step of “communicating and storing a portion of information which evidences the usage of audio” as is required by lines 10-12;

C) Where the original disclosure described a method which comprised the sequence of recited in claim 8 [see section “8)” of this paragraph], and which further comprised each of the following steps:

- 1) embedding said control signal in the non-visible portion of a television signal;

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- 2) embedding code in said one of a video image and audio that enables one of a computer and a controller to control a presentation of said one of a video image and audio in accordance with said control signal;
- 3) communicating a program unit identification code and storing said program unit identification code at a storage location associated with said one of a video image and audio; and
- 4) communicating to and storing at a storage location associated with said one of a video image and audio a portion of information to evidence one of an availability, use, and a usage of said one of a video image and audio at a user station.

13) With respect to claim 13, it not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The communicated “data” of line 1;
2. The “data receiver” of line 2;
3. The “data storage device” of line 2;
4. The “control signal detector” of line 3;
5. The “computer” of line 3 which processes the communicated “data”;

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6. Only “one control signal” which is capable of performing the functions recited for it in claim 13 as is required by the “at least one control signal” recitations of the claim [note line 4] and, in the alternative, “more than said one control signal” which are also capable of performing the same recited functions as is also required by the “at least one recitations of the claim;

7. The “control signal” of line 9 which is effective to control both a first receiver station and a second receiver station in the manner set forth in lines 8-11 of the claim;

8. The “information transmission” of line 13 which comprised “data” received at the origination station and said “control signal”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving data” at an origination station as set forth in line 7 of the claim;

2. The step of “receiving at least one control signal” as is recited in line 8 of the claim;

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3. The step of “transmitting an information signal” which comprises the received “data” and the received “control signal” as is recited in lines 13 and 14 of the claim.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) receiving said data to be transmitted from at least one origination station;
- 2) receiving said at least one control signal to be transmitted from said origination station, wherein said at least one control signal is effective in said network to control a first of said data receiver stations to transmit said data and to control a second of said, data receiver stations to identify and process at least a portion of said transmitted data; and
- 3) transmitting an information transmission from said origination station comprising said received data and said received at least one control signal.

Clarification of the above is required.

14) With respect to claim 14, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “identification data” of line 2;

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2. The recited “one control signal” of line 2;
3. The “more than said one control signal” that is required by the “at least one recitation of line 2;
4. The “data” and the “television signal containing said data” as is required by lines 2 and 3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “embedding” only the identification data into the television signal as is required by the “one of...” recitation of lines 2 and 3;
2. The step of “embedding” only the “one control signal” into the television signal as is required by the “one of...” recitation of lines 2 and 3;
3. The step of “embedding” more than the “one control signal” into the television signal as is required by the “one of...” and “at least one” recitations of lines 2 and 3;

C) Where the original disclosure described a method which comprised the sequence of recited in claim 13 [see section “13)” of this paragraph], and which further comprised the following steps:

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1) embedding one of (i) identification data and (ii) said at least one control signal a television signal containing said data.

Clarification is required.

15) With respect to claim 15, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The positively recited “two” of said plurality of receiver stations of line 1;
2. The stored “one instruction signal” of line 2 and, alternatively, the stored more than said “one instruction signal” as is required by the “at least one instruction signal” recitation of line 2.

B) Where the original disclosure described a method which comprised the sequence of recited in claim 13 [see section “13)” of this paragraph], and which further comprised the following steps: Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) storing, at two of said plurality of receiver stations, at least one instruct signal.

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16) With respect to claim 16, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. “Each of the plurality of receiver station ” which respond to only one control signal at different times as is required by the recitations of lines 1-3;
2. “Each of the plurality of receiver station ” which respond to more than said one control signal at different times as is required by the recitations of lines 1-3;
3. The “different time” of lines 2 and 3;

B) Where the original disclosure described a method which comprised the sequence of recited in claim 13 [see section “13)” of this paragraph], and which further comprised the following steps:

- 1) responding, at each of said plurality of receiver stations, to said at least one control signal at a different time.

17) With respect to claim 17, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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1. The “receiver” of line 2;
2. The “memory location” of line 3;
3. The “period of time” of line 3;
4. The “transmitter” of line 4;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving data at a receiver” as recited in line 2;
2. The step of “communicating the data from the receiver to a memory location” as is recited in lines 2 and 3;
3. The step of “storing said data at the memory location for a period of time prior to communicating the data to said transmitter”.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 13 [see section “13)” of this paragraph], and which further comprised the following steps:

- 1) receiving said data at a receiver;
- 2) communicating said data from said receiver to a memory location, and
- 3) storing said data at said memory location for a period of time prior to communicating said data to one of said transmitter.

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18) With respect to claim 18, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “mass medium programming” of lines 1 and 2;
2. The “network of programming receiver stations” of line 2;
3. The “programming receiver” of line 3;
4. The “output device” of line 3;
5. The “control signal detector” of line 3;
6. The “processor” of line 3;
7. The “at least one control signal” of line 5;
8. The “at least one of said programming receiver stations” of line 6
which includes a “transmitter”;
9. The “origination station” of lines 8 and 9;
10. The “at least one control signal” of line 10;
11. The “first of said programming receivers” that is recited in line 12;
12. The “second of said programming receivers” that is recited in line 13;
13. The “transmitted mass medium programming” and the “portion of
said transmitted mass medium programming” that are recited in lines 14;
14. The “information transmission” that is recited in line 15.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving mass medium programming” which is to be transmitted from an origination station as is recited in lines 8 and 9;
2. The step of “receiving at least one control signal” as is recited in line 10;
3. The implicit steps/functions of “controlling” the recited first station “to transmit” mass medium programming in response to the at least one control signal as is set forth in lines 11-12;
4. The implicit steps/functions of “controlling” the second station “to identify” and “to process” said “transmitted” mass medium programming as is set forth in lines 13 and 14;
5. The step of transmitting an information transmission from said origination station as is recited in lines 15-17.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) receiving mass medium programming to be transmitted from an origination station;

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- 2) receiving at least one control signal to be transmitted from said origination station, wherein said at least one control signal is effective in said network to control a first of said programming receiver stations to transmit said mass medium programming and to control a second of said programming receiver stations to identify and process at least a portion of said transmitted mass medium programming; and
- 3) transmitting an information transmission from said origination station comprising said received mass medium programming and said received at least one control signal.

19) With respect to claim 19, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “identification data” of line 2;
2. The recited “one instruct signal” of the recited “at least one instruct signal” as is recited in line 2;
3. The “mass medium programming signal” which contains said “mass medium programming” as is set forth in lines 2 and 3.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

1. Steps for “embedding” only “identification data”, only “one instruct signal”, and “more than said one instruct signal” into the recited mass medium programming.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 18 [see section “18)” of this paragraph], and which further comprised the following steps:

1. embedding one of (I) identification data and (ii) said at least one instruct signal is embedded in a mass medium program signal containing said mass medium programming.

20) With respect to claim 20, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “two” of the receiver stations recited in line 1;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The implicit step/function of storing said “at least one instruct signal” at two stations “concurrently”.

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 18 [see section “18)” of this paragraph], and which further comprised the following steps:

- 1) The additional step of storing said at least one instruct signal at two of said receiver stations concurrently.

21) With respect to claim 21, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. “Each receiver” which responds to said at least on instruct signal at “a different time” as is recited in line 1 and 2;
2. The recited “different time” of line 2;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The implicit step/function of responding to said at least one instruct signal at each station at a different time.

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 18 [see section “18)” of this paragraph], and which further comprised the following steps:

- 1) responding to said at least one control signal, at each of said plurality of receiver stations, a different time.

22) With respect to claim 22, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “transmitter station” of line 2;
2. The recited “receiver” of said transmitter station as is recited in line 2;
3. The recited “memory location” of lines 3 and 4;
4. The recited “period of time” that is recited in line 5.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving mass medium programming at a receiver of a transmitter station” as is recited in lines 2 and 3;
2. The step of “communicating said mass medium programming from said receiver to a memory location” as is set forth in lines 3 and 4;

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3. The step of “storing said mass medium programming at said memory location” as is recited in lines 4-6.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 18 [see section “18)” of this paragraph], and which further comprised the following steps:

- 1) receiving said mass medium programming at a receiver in a transmitter station;
- 2) communicating said mass medium programming from said receiver to a memory location;
- 3) storing said mass medium programming at said memory location for a period of time prior to communicating said mass medium programming to said transmitter.

23) With respect to claim 23, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “network of receiver stations” recited in lines 1 and 2;
2. The “signal receiver” of line 2;
3. The “signal detector” of line 2;

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4. The “information transmission” of line 3;
5. The “signals” of the information transmission of line 3;
6. The programmed “processor” of line 3;
7. The “transmitter” of line 5;
8. The “at least one receiver station” which includes the transmitter as is recited in lines 4 and 5;
9. The “one control signal” of line 6 which is effective to perform all of the functions which are recited for it in lines 7-10;
10. The “origination station” of line 6;
11. The “first of the receiver stations” that is explicitly recited in lines 7 and 8;
12. The “second of the receiver station” that is explicitly recited in lines 8 and 9;
13. The “transmitted information transmission” of lines 9 and 10;
14. The “portion” of the transmitted information transmission as recited in line 9;
15. The “one designation signal” that is recited in line 11;
16. The “at least one receiver station” to which said one control signal is “addressed”.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “receiving” the “one control signal” as is recited in lines 6-10;
2. The implied steps/function of: “controlling” the first receiver station to transmit the information transmission in response to said “one control signal”; and controlling the second receiver station to identify and process a portion of the information transmission in response to said same one control signals [note lines 7-10].
3. The step of “receiving” one designation signal as is recited in lines 11-14;
4. The step of “transmitting” said information transmission as recited in lines 15-17

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) receiving at least one control signal to be transmitted from an origination station, said at least one control signal effective in said network to control a first of said receiver stations to transmit said information transmission and to control a second of receiver stations to

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identify and process at least a portion of said transmitted information transmission;

- 2) receiving at least one designation signal to be transmitted from said origination station, said at least one designation signal designating at least one receiver station of said network of receiver stations to which said at least one control signal is addressed; and
- 3) transmitting said information transmission from said origination station, said information transmission comprising said received at least one control signal and said received at least one designation signal.

24) With respect to claim 24, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The recited “at least one control signal” of line 2;
2. The recited “one” of said at least one control signal as set forth in lines 1 and 2;
3. The recited “portion” of the recited “one” control signal of the recited “at least one control signal” as set forth in lines 1-2;

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4. The recited “non-visible” portion of the television signal into which said portion of said one control signal and said designation signal is embedded as is set forth in lines 1-3;
5. The recited “non-visible” portion of the multichannel broadcast, which contains video, into which said portion of said one control signal and said designation signal is embedded as is set forth in lines 1-3;
6. The recited “non-visible” portion of the multichannel cablecast, which contains video, into which said portion of said one control signal and said designation signal is embedded as is set forth in lines 1-3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The implicit step/function of “embedding” a portion of one control signal and a designation signal into a non-visible portion of: a television signal; a multichannel broadcast; and a multichannel cablecast.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 23 [see section “23)” of this paragraph], and which further comprised the following steps:

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1. The step of embedding a portion of one of said at least one control signal and said at least one designation signal into the non-visible portion of one of: a television signal; a multichannel broadcast which contains video; and a multichannel cablecast signal which contains video.

25) With respect to claim 25, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “one transmitter station” of line 2;
2. The “one receiver station” of line 2;
3. The “signal” of line 4;
4. The “transmission schedule” that is associated with the “signal” as set forth in line 4;
5. The “time” to transmit said signal of line 6;
7. The “frequency” of line 7;
8. The “output network” of line 7;
9. The “transmitter(s)” required by line 11;
10. The “information” of line 10;
11. The “portion” of the information that is communicated to/from the transmitter as is set forth in lines 10 and 11.

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12. The “information” of said schedule as is recited in lines 12 and 13;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “inputting a signal” as is recited in line 4;
2. The step of “inputting a transmission schedule” as is required by line 4;
3. The step of “transmitting said signal” according to the inputted schedule as required by 9;
4. The step of selecting a portion of information that is communicated to a transmitter as is required by lines 10 and 11;
5. The step of selecting a portion of information that is communicated from a transmitter as is required by line 10 and 11;
6. The step of “comparing” the selected portion of information, that is communicated from a transmitter, to information of said schedule as is required in lines 12-14;
7. The step of “comparing” the selected portion of information, that is communicated to a transmitter, to information of said schedule as is required in lines 12-14;

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C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal and a transmission schedule associated with said signal, said schedule comprising at least one of:
 - (1) a time at which to transmit said signal; and
 - (2) one of a frequency and an output network on which to transmit said signal;
- 2) transmitting said signal according to said schedule;
- 3) selecting at least a portion of information communicated one of to said transmitter and from said transmitter; and
- 4) comparing said selected at least a portion of information to information of said schedule, thereby to determine proper transmission of said signal according to said schedule.

26) With respect to claim 26, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “network” of line 1;
2. The “transmitter station” of line 2;
3. The “receiver station” of line 2;

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4. The “signal” of line 4;
5. The “transmission schedule” of line 4;
6. The “time” at which to transmit said signal of line 6;
7. The “frequency” on which to transmit said signal as required by lines 7 and 8;
8. The “output network” on which to transmit said signal as required by lines 7 and 8;
9. The selected “portion” of said signal of line 10;
10. The “information” that is stored in said network as is set forth in lines 11 and 12;
11. The “transmission time” that is recited in line 13;
12. The “transmission location” of line 13;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “inputting a signal” as is set forth in line 4;
2. The step of “inputting a transmission schedule” as is set forth in line 4;
3. The step of “transmitting said signal” as is set forth in line 9;
4. The step of “selecting a portion of said signal” as is recited in line 10;

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5. The step of “comparing” the selected portion of said signal to stored information as is recited in lines 11 and 12;
6. The step of “determining” a transmission time as is required via line 13;
7. The step of “determining” a transmission location as is required by line 13;

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal and a transmission schedule associated with said signal, said schedule including at least one of:
 - (1) a time at which to transmit said signal; and
 - (2) one of a frequency and an output network on which to transmit said signal;
- 2) transmitting said signal according to said schedule;
- 3) selecting a portion of said signal; and
- 4) comparing said selected portion of said signal to information stored in said network; and
- 5) determining one of a transmission time and a transmission location of said signal.

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27) With respect to claim 27, it is not clear:

A) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” the information transmission; 2) “controlling” a plurality of receiver stations with said control signal; and 3) “comparing” said information transmission to a program schedule ;

B) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal controls said first of said plurality of receiver stations to compare said information transmission to a programming schedule and to transmit said information transmission according to said programming schedule.

28) With respect to claim 28, it is not clear:

A) Where each of the following recited steps was described in the disclosure as originally filed:

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The implicit steps/functions of: 1) “transmitting” the information transmission; 2) “logging” a [the ?] transmission of the information transmission; etc...

B) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission according to a programming schedule and logs transmission of said information transmission.

29) With respect to claim 29, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “statistics” which pertain to the information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting said information transmission; 2) “generating” statistics pertaining to said information transmission; etc...

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission according to a programming schedule and generates statistics pertaining to said information transmission.

30) With respect to claim 30, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1) The “content” of the information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implied steps/functions of: 1) transmitting said information transmission; 2) identifying the content of said information transmission; etc...

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

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said control signal transmits said information transmission according to a programming schedule and identifies content of said information transmission.

31) With respect to claim 31, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “signal” of line 1;
2. The “transmitter station” of line 2;
3. The “receiver station” of line 2;
4. The “transmission schedule” of line 4;
5. The “first identifier” of line 5;
6. The “second identifier” of line 6;
7. The “time” of line 7;
8. The “frequency” of line 8;
9. The “output network” of line 8;
10. The selected “portion” of the signal of line 12;
11. The “processor” of line 13;
12. The “statistics” on programming availability of line 14;

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13. The “statistics” on programming use of line 14;

14. The “statistics” on programming usage of line 14;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “inputting” the signal to the transmitter station as is required in line 4;
2. The step of “inputting” a transmission schedule associated with said signal to said transmitter station as is required by lines 4 and 5;
3. The step of “transmitting said signal to the receiver station” as is set forth in lines 10 and 11;
4. The step of “selecting a portion” of said signal as is set forth in line 12;
5. The step of “inputting said selected portion” to a processor as is required in lines 13 and 14.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting to said transmitter station said signal and a transmission schedule associated with said signal, said signal including a first identifier, said schedule including a second identifier and at least one of:

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- (1) a time at which to transmit said signal; and
 - (2) one of a frequency and an output network on which to transmit said signal;
- 2) transmitting said signal to said receiver station according to said schedule based on a comparison of said first identifier and said second identifier;
- 3) selecting a portion of said signal at said receiver station; and
- 4) inputting said selected portion of said signal to a processor for gathering statistics on programming availability, use or usage.

32) With respect to claim 32, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

- 1) The “identifier” of line 3;
- 2) The “remote data collection station” of lines 3 and 4.

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) transmitting said information transmission; 2) outputting an identifier; etc...

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission according to a programming schedule and outputs an identifier of said information transmission to a remote data collection station.

33) With respect to claim 33, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “content” that is identified and that is communicated via a switch in lines 2-3;
2. The “switch” of line 2;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “identifying” a content of the information transmission; 2) “controlling” a switch to communicate said content; etc...

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal identifies content of said information transmission and controls a switch to communicate said content.

34) With respect to claim 34, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “content” that is identified and that is communicated via a switch in lines 2-3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “identifying” a content of the information transmission; 2) “transmitting” said content; 3) “delaying” the transmission of said content; etc...

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal identifies content of said information transmission and delays transmission of said content.

35) With respect to claim 35, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The selected “storage location” of line 2;
2. The “portion” of the information transmission as is recited in line 2;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) selecting a storage location; 2) “storing” the portion; etc...

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

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said control signal selects a storage location and stores a portion of said information transmission at said selected storage location.

36) With respect to claim 36, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “signal” of line 1;
2. The “transmitter station” of line 2;
3. The “receiver station” of line 2;
3. The “programming” of line 4;
4. The “identifier” of line 4;
5. The “schedule” of line 5;
6. The “time” of line 7;
7. The “portion” of the signal recited in line 7;
8. The “frequency” that is recited in line 8;
9. The “output network” of line 8;
10. The “portion” of the signal recited in lines 8 and 9;
11. The recited “one statistic” on availability of said programming as is required in lines 12 and 13;

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12. The recited “one statistic” on use of said programming as is required in lines 12 and 13;

13. The recited “one statistic” on usage of said programming as is required in lines 12 and 13;

14. The recited “content” of line 14.

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “inputting said signal” at said transmitter station” as is recited in lines 3 and 4;

2. The step of “inputting a schedule” at said transmitter station as is recited in line 5;

3. The step of “transmitting a portion of said signal” as is recited in line 10;

4. The step of “processing said signal” as is recited in line 12;

5. The step of “identifying said signal” as is required by line 14;

6. The step of “identifying content of said signal” as is required by line 14;

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

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- 1) inputting said signal at said transmitter station, said signal including programming and an identifier;
- 2) inputting a schedule at said transmitter station, said schedule including at least one of:
 - (1) a time at which to transmit a portion of said signal; and
 - (2) one of a frequency and an output network on which to transmit a portion of said signal;
- 3) transmitting said portion of signal from said transmitter station according to said schedule based on a comparison performed with said identifier;
- 4) processing said signal to gather at least one statistic on availability, use or usage of said programming at said receiver station; and
- 5) identifying one of said signal and content of said signal at said receiver station on the basis of said identifier.

37) With respect to claim 37, it is not clear:

A) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “delaying” a transmission of the information transmission in response to the control signal.

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B) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

control signal further delays transmission of said information transmission.

38) With respect to claim 38, it is not clear:

A) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “controlling” said second of the plurality of receiver stations; 2) “receiving” said information transmission; etc...

B) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal further controls said second of said plurality of receiver stations to receive said information transmission.

39) With respect to claim 39, it is not clear:

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A) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” said information transmission; 2) “controlling” said second station; 3) “storing” said information transmission; etc...

B) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission according to a transmission schedule and controls said second of said plurality of receiver stations to store said information transmission.

40) With respect to claim 40, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “specific time” of line 2.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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The implicit steps/functions of: 1) “transmitting” said information transmission; 2) “generating” information; 3) “outputting” information; etc...

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission at a specific time and generates and outputs information.

41) With respect to claim 41, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “plurality of signals” of line 1;
2. The “programming” of line 3;
3. The “identifier” of line 3;
4. The “signal” of line 3 which includes the programming and the identifier;
5. The “schedule” of line 4;
6. The “designations” required in line 4;
7. The “approximate transmission time” of line 6;

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8. The “transmission frequency” of line 7;
9. The “output network” of line 7;
10. The “distribution system of a transmission station” as is recited in line 8;
11. The “storage location” of line 11;
12. The “remote location” of line 11;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1. The step of “inputting a signal” which includes programming and an identifier as is recited in line 3;
2. The step of “inputting a schedule” which includes a designation for each of a plurality of signals as is recited in line 4;
3. The step of “transferring said signal” to a distribution system of a transmission station as is recited in lines 8 and 9;
4. The step of “identifying one of said signal” based on the identifier as is recited in line 10;
5. The step of “outputting said identifier” from a storage location as is recited in line 11.

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C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal, said signal including programming and an identifier;
- 2) inputting a schedule including a designation for each of said plurality of signals at least one of:
 - (1) an approximate transmission time, and
 - (2) one of a transmission frequency and an output network;
- 3) transferring said signal to a distribution system of a transmission station according to said schedule;
- 4) identifying one of said signal based on said identifier; and
- 5) outputting said identifier from a storage location to a remote location.

42) With respect to claim 42, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “information” of line 2 which completes said information transmission;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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The implicit steps/functions of: 1) “generating” information to complete said information transmission; 2) “outputting” said generated information.

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal further generates information to complete said information transmission and outputs said generated information with said information transmission.

43) With respect to claim 43, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “information contained in said information transmission” of line 2;
2. The “response” of line 3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” said information transmission; 2) “processing” a response to information contained in the information transmission; etc...

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C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

control signal transmits said information transmission according to a programming schedule and processes a response to information contained in said information transmission.

44) With respect to claim 44, it is not clear:

A) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” said information transmission; 2) “controlling” the “outputting” of information at the second station, etc...

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

said control signal transmits said information transmission according to a programming schedule and controls the output of said information transmission at said second of said plurality of receiver stations.

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45) With respect to claim 45, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “portion” of the information transmission which is decrypted information contained in said information transmission” of line 2;
2. The “response” of line 3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” said information transmission; 2) “processing” a response to information contained in the information transmission; etc...

C) Where the original disclosure described a method which comprised the sequence of recited in claim 3 [see section “3)” of this paragraph], and which further comprised the following implicit steps/functions:

control signal transmits said information transmission according to a programming schedule and processes a response to information contained in said information transmission.

44) With respect to claim 44, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

- 1) “the programming schedule” of line 2;
- 2) “the output” of line 3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

- 1) the implicit step/function of “transmitting” said information according to a programming schedule” in response to a control signal as is required by lines 1 and 2;
- 2) the implicit step/function of “controlling the output of said information transmission at said second plurality of receiver stations via said control signal;

C) Where a method was originally described which comprised the sequence of steps set forth in claim 3 [see part “3)” of this paragraph], and which further comprised all of the following:

said control signal transmits said information transmission according to a programming schedule and controls the output of said information transmission at said second of said plurality of receiver stations.

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45) With respect to claim 45, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

- 1) The “decrypted portion of said information transmission” as is required in lines 1 and 2;
- 2) The “outputting” of the decrypted portion in response to the control signal as is required in lines 2 and 3.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method was originally described which comprised the sequence of steps set forth in claim 3 [see part “3)” of this paragraph], and which further comprised all of the following:

said control signal decrypts a portion of said information transmission and controls the output of said information decrypted in said information transmission.

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46) With respect to claim 46, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

- 1) The “one of a plurality of signals” of line 1;
- 2) The “signal” of line 3 which includes programming and an identifier;
- 3) The “programming” of line 3;
- 4) The “identifier” of line 3;
- 5) The “schedule” of line 4;
- 6) The “controller” of line 4;
- 7) The “transmission station” of line 4;
- 8) The “approximate transmission time” of line 6;
- 9) The “transmission frequency” of line 7;
- 10) The “output network” of line 7;
- 11) The “remote location” of line 10;

B) Where each of the following recited steps was described in the disclosure as originally filed:

- 1) The step of “inputting a signal” as is recited in line 3;
- 2) The step of “inputting a schedule to a controller” as is recited in line 4;

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- 3) The step of “transmitting said signal” as is recited in line 8;
- 4) The step of “identifying said signal” at a receiver station based on the identifier as is recited in line 9;
- 5) The step of “outputting said identifier to a remote location” as is recited in line 10.

:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal, said signal including programming and an identifier;
- 2) inputting a schedule to a controller for controlling a transmission station, said schedule including for each of said plurality of signals at least one of:
 - (1) an approximate transmission time; and
 - (2) one of a transmission frequency and an output network;
- 3) transmitting said signal according to said schedule;
- 4) identifying said signal at a receiver station on the basis of said identifier; and
- 5) outputting said identifier to a remote location.

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47) With respect to claim 47, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “control signal” of claim 47;
2. The “schedule” of line 2;
3. The “multimedia presentation” of line 3;
4. The “portion” of the multimedia presentation of line 3;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “transmitting” the information transmission according to a schedule based on the control signal; and 2) outputting said information transmission as a portion of a multimedia presentation based on said control signal.

C) Where a method was originally described which comprised the sequence of steps set forth in claim 3 [see part “3)” of this paragraph], and which further comprised all of the following:

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said control signal transmits said information transmission according to a schedule and outputs said information transmission as a portion of a multimedia presentation.

48) With respect to claim 48, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “control signal” of claim 48;
2. The “content” of line 3;
3. The “control signal” of line 4;
4. The “identifier” of said control signal of line 4;

B) Where each of the following recited steps was described in the disclosure as originally filed:

The implicit steps/functions of: 1) “identifying” content of the information transmission at each of said first and second stations; 2) “processing” said control signal to perform said identification steps; 3) “including” an identifier in said control signal; etc...

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C) Where a method was originally described which comprised the sequence of steps set forth in claim 3 [see part “3)” of this paragraph], and which further comprised all of the following:

said first of said plurality of receiver stations and said second of said plurality of receiver stations each identify content of said information transmission by processing said control signal, said method further comprising the step of including an identifier in said control signal.

49) With respect to claim 49, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “identifier” which identifies one of television or radio programming;
2. The “television programming” that is required in line 2;
3. The “radio programming” that is required in line 2;
4. The “information transmission” of lines 3 and 4;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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- 1) The implicit step/fuction of “identifying” television programming with an identifier;
- 2) The implicit step/fuction of “identifying” radio programming with an identifier;
- 3) the step of “including” television programming in an information transmission;
- 4) the step of “including” radio programming in an information transmission;

C) Where a method was originally described which comprised the sequence of steps set forth in claim 48 [see part “48)” of this paragraph], and which further comprised all of the following:

said identifier identifies one of television and radio programming, said method further comprising the step of including said one of television and radio programming in said information transmission.

50) With respect to claim 50, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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1. The “identifier” which identified one of video and audio;
2. The “video” of line 2;
3. The “audio” of line 2;
4. “Said information transmission” into which one of said video and audio is included;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method was originally described which comprised the sequence of steps set forth in claim 48 [see part “48)” of this paragraph], and which further comprised all of the following:

said identifier identifies one of video and audio, said method further comprising the step of including said one of video and audio in said information transmission.

51) With respect to claim 51, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “datum” of line 2;
2. The “instruction of line 2;
3. The “identifier” of line 1 which identifies one of said “datum” and said “instruction”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 48 was described in the original disclosure [see section “48)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of including said one of a datum and an instruction in said information transmission.

52) With respect to claim 52, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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1. The “availability of content” as is required in line 3;
2. The “use of content” as is required in line 3;
3. The “usage of content” as is required in line 3;
4. The “portion of information to be processed that identifies said content of information” that is recited in line 5;
5. The “first receiver station” and the “second receiver station” that are recited in lines one and 2 each of which monitors one of availability, use, and usage of content of the information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of including in said information transmission a portion of information to be processed that identifies said content of said information transmission.

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53) With respect to claim 53, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “storage device” of line 2;
2. The “portion of information” that is stored at said storage device as is recited in lines 1 and 2;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 52 was described in the original disclosure [see section “52)” of this paragraph] wherein said method further comprised the following sequence of steps:

The step of storing said portion of information at said storage device based on said step of communicating;

The step of including said control signal in said information transmission before storing said control signal.

54) With respect to claim 54, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “code” of line 2;
2. The “processor” at each receiver station that is controlled by said code as is recited in lines 2 and 3;
3. The “portion of information” that: includes said “code”; that is stored in said storage device based on said step of communicating; and that is processed to identify the content of said information transmission as is required via claims 52-54.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 53 was described in the original disclosure [see section “53)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of including said code in said control signal.

55) With respect to claim 55, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “control signal” of line 3;
2. The “transmission location” of line 6;
3. The “time” of line 6 which must be different from the “transmission location” of line 6;
4. The “first receiver station” that can be programmed to process said control signal based on transmission location as is required via lines 1-4;
5. The “first receiver station” that can be programmed to process said control signal based on time as is required by lines 1-4;
6. The “second receiver station” that can be programmed to process said control signal based on transmission location as is required via lines 1-4;
7. The “second receiver station” that can be programmed to process said control signal based on time as is required by lines 1-4;
8. The “fashion” of inputting said control signal to the storage device which enables said storage device to output said control signal in a transmission location as is required via line 4-6;
9. The “fashion” of inputting said control signal to the storage device which enables said storage device to output said control signal in a time as is required via line 4-6;

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

The step of inputting said control signal to said storage device in a fashion which enables said storage device to output said control signal in said one of a transmission location and time.

56) With respect to claim 56, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “interval of time” that is recited in line 3;
2. The “predetermined time” that is recited in line 4;
3. The “first receiver station” that is programmed to to process said control signal based on a time interval;
4. The “first receiver station” that is programmed to to process said control signal based on a time;

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5. The “second receiver station” that is programmed to to process said control signal based on a time interval;

6. The “second receiver station” that is programmed to to process said control signal based on a time;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 55 was described in the original disclosure [see section “55)” of this paragraph] wherein said method further comprised the following sequence of steps:

Programming one of said first of said plurality of receiver stations and said second of said plurality of receiver stations to process said control signal based on one of an interval of time and a predetermined time.

57) With respect to claim 57, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “location” in the information transmission that is recited in line 3;

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2. The “first receiver station” that is programmed to to process said control signal based on the location in said information transmission;
3. The “second receiver station” that is programmed to to process said control signal based on the location in said information transmission;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 55 was described in the original disclosure [see section “55)” of this paragraph] wherein said method further comprised the following sequence of steps:

Programming said one of said first of said plurality of receiver stations and said second of said plurality of receiver stations to process said control signal based on a location in said information transmission.

58) With respect to claim 58, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 57 was described in the original disclosure [see section “57)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of embedding said control signal in said information transmission.

59) With respect to claim 59, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “portion” of said information transmission that is encoded and communicated to said storage device.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 57 was described in the original disclosure [see section “57)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of encoding a portion of said information transmission before communicating said portion said storage device.

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60) With respect to claim 60, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first portion of information” which is included in said information transmission which enables one of the plurality of receiver stations to select a second portion of information;
2. The “first portion of information” which is included in said control signal which enables one of the plurality of receiver stations to select a second portion of information;
3. The “first portion of information” which is included in said information transmission which enables one of the plurality of receiver stations to select a device to which to communicate a second portion of information;
4. The “first portion of information” which is included in said control signal which enables one of the plurality of receiver stations to select a device to which to communicate a second portion of information.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

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including in one of said information transmission and said control signal a first portion of information which enables one of said plurality of receiver stations to select one of a second portion of information and a device to which to communicate a second portion of information.

61) With respect to claim 61, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “storage device” of line 2;
2. The “second portion of information” that is communicated to, and stored in, said storage device.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 60 was described in the original disclosure [see section “60)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) communicating said second portion of information to said storage device; and
- 2) storing said second portion of information at said storage device.

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62) With respect to claim 62, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first instruction” of line 3;
2. The “second portion of information” that includes the “first instruction” as is recited in line 3;
3. The “control signal” that includes the “second portion of information” which, in turn, includes the “first instruction” as is required in lines 3-5;
4. The “computer” of line 2 to which said instruction is communicated.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 61 was described in the original disclosure [see section “61)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of including said second portion of information in said control signal.

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63) With respect to claim 63, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “remote station” of line 2;
2. The “function” of line 4;
3. The “portion of said information” that is recited in line 4;
4. The “signal content” of line 1 which enables one of the plurality of receiver stations to communicate to the remote station receipt of a portion of said information transmission;
5. The “signal content” of line 1 which enables one of the plurality of receiver stations to communicate to the remote station a function performed in response to a portion of said information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 62 was described in the original disclosure [see section “62)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) enabling, by signal content, one of said plurality of receiver stations to communicate to a remote station information evidencing one of (I) receipt

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of a portion of said information transmission and (ii) a function performed in response to a portion of said information transmission; and

2) including said signal content in one of said information transmission and said control signal.

64) With respect to claim 64, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “data programming” that is recited in line 3;
2. The “signal” that includes specific programming and an embedded identifier, wherein said specific programming includes video programming as is required in line 3 and 4;
3. The “signal” that includes specific programming and an embedded identifier, wherein said specific programming includes audio programming as is required in line 3 and 4;
4. The “signal” that includes specific programming and an embedded identifier, wherein said specific programming includes data programming as is required in line 3 and 4;
5. The “switch” and “processor” of line 5;
6. The “timing instructions” of line 8;

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7. The “communication” of the signal that is delayed in line 9.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal, said signal including (I) specific programming including one of video, audio and data programming and (ii) an embedded identifier;
- 2) inputting said signal to a switch and a processor;
- 3) determining said specific programming inputted to said switch;
- 4) controlling said switch to communicate said specific programming according to timing instructions; and
- 5) delaying communication of said signal.

65) With respect to claim 65, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 3;

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2. The “plurality of signals” of line 3 that are inputted to the transmission station;
3. The “specific video programming” of line 4;
4. The “specific audio programming” of line 4;
5. The “specific data programming” of line 5;
6. The “identifier” of line 5;
7. The signal or signals that include specific video programming and an identifier as is required via lines 3-5;
8. The signal or signals that include specific audio programming and an identifier as is required via lines 3-5;
9. The signal or signals that include specific data programming and an identifier as is required via lines 3-5;
10. The “switch” of line 6;
11. The “output channels” of line 7;
12. The “predetermined data” 12;
13. The “instruction to delay” of line 14.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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1) the step of communicating an instruction to delay communication of one of the plurality of signals that are inputted to the transmission station as is required in lines 14 and 15.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a plurality of signals to a transmission station, wherein each of said plurality of signals includes (I) one of specific video programming, audio programming, and data programming and (ii) an identifier;
- 2) inputting at said transmission station each of said plurality of signals to a switch having a plurality of output channels;
- 3) processing each signal of said plurality of signals to determine that each of said one of specific video programming, audio programming, and data programming is input to said switch;
- 4) comparing said identifier of each signal of said plurality of signals to predetermined data to determine when to transmit each signal of said plurality of signals; and
- 5) communicating an instruction to delay communication of one signal of said plurality of signals.

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66) With respect to claim 66, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “remote station” of line 3;
2. The “first portion” of line 1 that controls one of the receiver stations;
3. The “signal content” of lines 2 and 3 which is communicated to the remote station;
4. The “signal content” of line 5 that includes an “identifier”
5. The “first portion” of line 6 that includes the “signal content”;
4. The “control signal” of line 7 that includes said first portion.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 63 was described in the original disclosure [see section “63)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) including an identifier in the signal content;
- 2) including the signal content in the first portion of information;
- and
- 3) including the first portion of information in the control signal.

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67) With respect to claim 67, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “second instruction” of line 3;
2. The “command” of line 3;
3. The “first instructions” of line 2;
4. The “computer” of line 2;
5. The “first instructions” which program “said computer” to respond to “said second instruction” as is required by lines 1-4;
6. The “first instructions” which program “said computer” to respond to “said command” as is required by lines 1-4;
7. The “storage device” of lines 5 and 6 which stores the first instructions and the command;
7. The “storage device” of lines 5 and 6 which stores the first instructions and the second instruction.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 60 was described in the original disclosure [see section “60)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) storing said plurality of first instructions at said storage device;
- and
- 2) storing said command at said storage device;
- 3) storing said second instruction at said storage device

68) With respect to claim 68, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first plurality of receiver stations” as is recited in line 2;
2. The “second plurality of receiver stations” as is recited in line 3;
3. The “control signal” of line 1 which controls the first plurality of receiver station to transmit the information transmission to the second plurality of receiver stations to control said second plurality of receiver stations.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

controlling said first of said plurality of receiver stations, with the control signal, to transmit said information transmission to said second of said plurality of receiver stations to control said second of said plurality of receiver stations.

69) With respect to claim 69, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first plurality of receiver stations” recited in line 2;
2. The “programming schedule” recited in line 3;
3. The “first information transmission” of lines 2 and 3;
4. The “control signal” of line 1 which controls the first plurality of receiver stations to compare the first information transmission said programming schedule.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) controlling said first of said plurality of receiver stations, with said control signal, to compare said first information transmission to a programming schedule and
- 2) transmitting said first information transmission according to said programming schedule.

70) With respect to claim 70, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 3;
2. The “switch” of line 3;
3. The “identifier” of line 4;
4. The “signal” of line 3 which included the identifier and video as required by lines 3 and 4;
4. The “signal” of line 3 which included the identifier and audio as required by lines 3 and 4;

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5. The “predetermined datum” of line 5, which was compared to the identifier of a signal including video, to determine a time to transmit said signal that includes video;

6. The “predetermined datum” of line 5, which was compared to the identifier of a signal including audio, to determine a time to transmit said signal includes audio;

5. The “predetermined datum” of line 5, which was compared to the identifier of a signal including video, to determine whether to delay transmission of said signal that includes video;

6. The “predetermined datum” of line 5, which was compared to the identifier of a signal including audio, to determine whether to delay transmission of said signal that includes audio;

7. The “selected storage location” of lines 7 and 8 to which said signal including video was communicated;

8. The “selected storage location” of lines 7 and 8 to which said signal including audio was communicated.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a signal to a switch at a transmission station, said signal including an identifier and one of video and audio, said switch having a plurality of output channels;
- 2) comparing said identifier to a predetermined datum to determine one of
 - (I) a time to transmit said signal and
 - (ii) whether to delay transmission of said signal;
- 3) selecting a storage location; and
- 4) communicating said signal to said selected storage location.

71) With respect to claim 71, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of lines 1-3;
2. The “control signal” of line 1 which: a) “transmits said first information signal according to a predetermined schedule”; and b) “logs transmission of said first information transmission”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a programming schedule via the control signal;
- 2) logging the transmission of said first information transmission via the control signal.

72) With respect to claim 72, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of lines 1-3;
2. The generated “statistics” of line 3;
2. The “control signal” of line 1 which: a) “transmits said first information transmission according to a programming schedule; and b) “generates statistics of said first information transmission”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a programming schedule via the control signal
- 2) generating statistics of said first information transmission via the control signal.

73) With respect to claim 73, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The identified “content” of line 3;
2. The “first information transmission” of lines 1-3;
3. The “control signal” of line 1 which: a) transmits the first information signal according to a programming schedule; and b) identifies the content of said first information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a programming schedule via the control signal;
- 2) identifying the content of said first information transmission via the control signal.

74) With respect to claim 74, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “remote data collection station” of lines 3 and 4;
2. The outputted “identifier” of line 3;
3. The “first information transmission” of lines 1-4;
3. The “control signal” of line 1 which: a) transmits the first information signal according to a programming schedule; and b) outputs and identifier of said first information transmission to the remote data collection station.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a programming schedule via the control signal;
- 2) outputting an identifier of said first information transmission to a remote data collection station via the control signal.

75) With respect to claim 75, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 3;
2. The “plurality of signal” of line 3;
3. The “video programming” of line 4;
4. The “audio programming” of line 5;
5. The “data programming” of line 5;
6. The “signal” of lines 3-5 which comprises an identifier and only the video programming;
7. The “signal” of lines 3-5 which comprises an identifier and only the audio programming;

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8. The “signal” of lines 3-5 which comprises an identifier and only the data programming;
9. The “signal” of lines 3-5 which comprises an identifier and more than one of the video, audio and data programming;
10. The “switch” of line 6 which has a plurality of output channels;
11. The “distribution system” of line 11;
12. The “processor” of line 11 that is in said distribution system;
13. The “output ports” of the processor that are recited in line 12;
14. The one “remote location” that is required by the “at least one” recitation of line 13;
15. The “plurality of signals” in line 11 which are transmitted to said one remote location;
16. The plurality of “remote locations” that are also required by the “at least one” recitation of line 13;
17. The “plurality of signals” in line 11 that are transmitted to more than one remote location;
18. The “specific signal” in line 14 for which it is determined that it should be delayed;
19. The selected “storage location” to which said specific signal is communicated.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting said plurality of signals at a transmission station, each signal of said plurality of signals comprising an identifier and at least one of video programming, audio programming and data programming;
- 2) inputting said plurality of signals to a switch having a plurality of output channels;
- 3) processing each of said plurality of signals to determine:
 - (I) which of said at least one of video programming, audio programming and data programming is input to said switch: and
 - (ii) when to transmit each of said plurality of signals;
- 4) transmitting said plurality of signals to a processor in a distribution system, said processor having a plurality of output ports;
- 5) communicating said plurality of signals to at least one remote location;
- 6) determining that transmission of a specific signal of said plurality of signals should be delayed;
- 7) selecting a storage location; and

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8) communicating said specific signal to said selected storage location.

76) With respect to claim 76, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” that is recited in line 2;
2. The “content of said first information transmission” as is recited in line 2;
3. The “switch” of line 2 which communicates an identified content of the first information transmission;
4. The “control signal” of line 1 which: a) identifies the content of said first information transmission; and b) controls a switch to communicate said content.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

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- 1) identifying content of said first information transmission via the control signal;
- 2) controlling a switch to communicate said content via the control signal.

77) With respect to claim 77, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” that is recited in line 2;
2. The “content of said first information transmission” as is recited in line 2;
3. The “control signal” of line 1 which: a) identifies the content of said first information transmission; and b) delays transmission of said content.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) identifying content of said first information transmission via the control signal; and

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2) delaying transmission of said content via the control signal.

78) With respect to claim 78, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The selected “storage location” of line 2;
2. The “portion of the first information transmission” that is stored at the selected storage location;
3. The “control signal” that: a) selects a storage location; and 2) stores a portion of the first information transmission at the selected location.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) selecting a storage location via the control signal; and
- 2) storing a portion of said first information transmission at said selected storage location via said control signal.

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79) With respect to claim 79, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1) The “control signal” of line 2 which delays transmission of the first information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) delaying transmission of said first information transmission via the control signal.

80) With respect to claim 80, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 2;
2. The “receiver station” of line 2;
3. The “user data” of line 3 that is stored at the receiver station;

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4. The “signals” of line 3 that are selected on the basis of the stored “user data”;
5. The “programming signal” of line 5;
6. The “comparison signal” of line 5;
7. The “transmission time” of line 9;
8. The “identifier” of a transmission frequency as required by line 10;
9. The “identifier” of an output network as required by line 10;
10. The “signal identifier” required by line 12;
11. The “transmission schedule” of line 7 which comprises only two of: a) a transmission time; b) an identifier for one of a transmission frequency and an output network; and c) a signal identifier;
12. The “transmission schedule” of line 7 which comprises more than two of: a) a transmission time; b) an identifier for one of a transmission frequency and an output network; and c) a signal identifier;
13. The detected “information” of line 16 that is selected, at the receiver station, in said programming signal;
14. The detected “information” of line 16 that is selected, at the receiver station, in said comparison signal;
15. The “selected information” of line 18 that is compared to “said user data”;

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16. The “portion” of the information transmission of line 19 that is received at the receiving station that contains “said programming signal” and said “comparison signal”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) programming said receiver station to store user data and select said signals on the basis of said user data;
- 2) inputting a programming signal and a comparison signal at said transmission station, said comparison signal designating a transmission schedule;
- 3) inputting said transmission schedule, said transmission schedule comprising for each of said signals at least two of:
 - (1) a transmission time;
 - (2) an identifier for one of a transmission frequency and an output network; and
 - (3) a signal identifier;

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- 4) transmitting said programming signal and said comparison signal from said transmission station in accordance with said transmission schedule based on said comparison signal;
- 5) selecting information detected in one of said programming signal and said comparison signal at said receiver station;
- 6) comparing said selected information to said user data; and
- 7) receiving a portion of an information transmission containing said programming signal and said comparison signal at said receiver station based on said step of comparing.

81) With respect to claim 81, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “second of the plurality of receiver stations” that is recited in line 2;
2. The “first information transmission” of lines 2 and 3;
3. The “control signal” of line 1 which “further controls” the second of the receiver stations to receive the first information transmission;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) controlling said second of said plurality of receiver stations to receive said first information transmission via said control signal.

82) With respect to claim 82, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of line 2;
2. The “transmission schedule” of line 2;
3. The “second of the plurality of receiver stations” that is recited in line 3;
4. The “first information transmission” of lines 3 and 4;
5. The “control signal” of line 1 which: a) transmits said first information transmission according to a transmission schedule; and b) controls the second receiver station to store the first information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a transmission schedule via the control signal; and
- 2) controlling said second of said plurality of receiver stations to store said first information transmission via said control signal.

83) With respect to claim 83, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “specific time” of line 2;
2. The “information” of line 3 that is generated and outputted;
3. The “control signal” of line 1 which: a) transmits the first information transmission; and b) generates and outputs information;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission at a specific time via the control signal; and
- 2) generating information via said control signal:
- 3) outputting said generated information via said control signal.

84) With respect to claim 84, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of line 2;
2. The “information” of line 2 which completes said first information transmission;
3. The “generated information” of line 3 which is outputted with said “first information transmission”;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) further generating information to complete said first information transmission via said control signal; and
- 2) outputting said generated information with said first information transmission via said control signal.

85) With respect to claim 85, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 2;
2. The “receiver station” of line 2 that is remote from the transmission station;
3. The “user data” of line 4 that is stored at the receiver station;
4. The “plurality of signals” of line 5 that inputted to the transmission station;
5. The inputted “transmission schedule” of line 6 that is associated with the inputted plurality of signals;
6. The “transmission time” of line 10;

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7. The “transmission frequency” of line 11;
8. The “output network” of line 11;
9. The “identifier” of line 12;
10. The “one of the plurality of signals” that is recited in line 8;
11. The “specific schedule for each of the plurality of inputted signals”, of line 7, that is identified by the inputted transmission schedule and which, for the one of the plurality of signals, designates only two of: a) the transmission time; b) only one of the transmission frequency and the output network; and c) and the identifier;
12. The “specific schedule for each of the plurality of inputted signals”, of line 7, that is identified by the inputted transmission schedule and which, for the one of the plurality of signals, designates more than two of: a) the transmission time; b) only one of the transmission frequency and the output network; and c) and the identifier;
13. The transmitted “one of the plurality of signals” that is recited in line 13;
14. The stored “one of the plurality of signals” that is recited in line 15.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) programming said receiver station to store user data;
- 2) inputting said plurality of signals to said transmission station;
- 3) inputting a transmission schedule associated with said plurality of signals, said transmission schedule identifying a specific schedule for each of said plurality of signals, each said specific schedule designating for one of said plurality of signals at least two of:
 - (1) a transmission time;
 - (2) one of a transmission frequency and an output network; and
 - (3) an identifier;
- 4) transmitting one of said plurality of signals in accordance with said transmission schedule;
- 5) causing said receiver station to store one of said plurality of signals based on said user data.

86) With respect to claim 86, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of line 2;

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2. The “information” of line 3 that is contained in the first information transmission;
2. The “programming schedule” of line 2;
3. The “response” of line 3 that is made to the information that is contained within the information transmission;
- 4) The “control signal” of line 1 which: a) transmits the first information transmission according to a programming schedule; and b) processes a response to information contained in said first information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting said first information transmission according to a programming schedule via the control signal; and
- 2) processing a response to information contained in said first information transmission via the control signal.

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87) With respect to claim 87, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “network” of line 2;
2. The “transmission station” of line 2;
3. The “remote receiver station” of line 2;
4. The “plurality of signals” of line 4 which are inputted at the transmission station;
5. The “transmission time” of line 8;
6. The “transmission frequency” of line 9;
7. The “output network” of line 9
8. The “designation code” of line 10;
9. The “communication schedule” of line 5, that is associated with the inputted plurality of signals, and which designates for each of the plurality of signals only two of: a) the transmission time; b) only one of the transmission frequency and the output network; and c) a designation code;
10. The “communication schedule” of line 5, that is associated with the inputted plurality of signals, and which designates for each of the plurality of signals more than two of: a) the transmission time; b) only one of the transmission frequency and the output network; and c) a designation code;

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11. The “specific information content” of line 14 that does not exist;
12. The “time” of line 13 when the specific information content does not exist;
13. The “computer” of line 13;
14. The “portion of the plurality of signals” that are inputted to the computer when the specific information content does not exist;
15. The “specific information content” of line 15 which is generated in response to the portion of the plurality of signals that is inputted to the computer when said specific information content does not exist;
16. The “specific information content” of line 17 that is outputted at the receiver station.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting said plurality of signals at said transmission station;
- 2) inputting a communication schedule associated with said plurality of signals, said communication schedule designating for each signal of said plurality of signals at least two of:

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- (1) a transmission time;
 - (2) one of a transmission frequency and an output network; and
 - (3) a designation code;
- 3) communicating each signal of said plurality of signals in accordance with said communication schedule;
- 4) inputting a portion of said plurality of signals to a computer at a time when specific information content does not exist;
- 5) generating said specific information content in response to said inputted portion of said plurality of signals; and
- 6) causing said receiver station to output said specific information content.

88) With respect to claim 88, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “network” of line 2;
2. The “transmission station” of line 2;
3. The “remote receiver station” of line 2;
4. The “control signal” of line 4 that is inputted at the transmission station;

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5. The “transmission time” of line 7;
6. The “transmission frequency” of line 8;
7. The “output network” of line 8;
8. The “identifier” of line 9;
9. The inputted “schedule” of line 5, that is associated with the inputted control signal, and that designates only two of: a) the transmission time; b) one of a transmission frequency and an output network; and c) an identifier;
10. The “information content” of line 11 which does not exist;
11. The “time” of line 10 at which the information content does not exist;
12. The “control signal” of line 10 that is communicated at a time when the information content does not exist;
13. The “computer” of line 12;
14. The “control signal” of line 12 which is inputted to the computer;
15. The “control signal” of line 13 which causes the generation of the “information content” of line 13;
15. The “video” of line 14;
16. The “graphic” of line 14;

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17. The “information content” of lines 13 and 14, which is generated in response to the control signal, and which includes only one of the video and the graphic of line 14;

18. The “output containing television programming” of lines 16 and 17 which is outputted at said transmission station;

19. The “output containing television programming” of lines 16 and 17 which is outputted at said remote receiver station;

20. The “signal generator” of line 15 which, at the transmitter station, adds “said control signal” to the output containing television programming as is required via the recitations of lines 15-17;

21. The “signal generator” of line 15 which, at the transmitter station, adds “said generated information content” to the output containing television programming as is required via the recitations of lines 15-17;

22. The “signal generator” of line 15 which, at the remote receiver station, adds “said control signal” to the output containing television programming as is required via the recitations of lines 15-17;

23. The “signal generator” of line 15 which, at the remote receiver station, adds “said generated information content” to the output containing television programming as is required via the recitations of lines 15-17.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a control signal at said transmission station;
- 2) inputting a schedule associated with said control signal, said schedule designating two of:
 - (1) a transmission time;
 - (2) one of a transmission frequency and an output network; and
 - (3) an identifier;
- 3) communicating said control signal in accordance with said schedule at a time when information content does not exist;
- 4) inputting said control signal to a computer based on said step of communicating;
- 5) generating said information content in response to said control signal, said information content including one of video and a graphic; and
- 6) causing a signal generator to add one of said control signal and said generated information content to an output containing television

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programming at one of said transmission station and said remote receiver station.

89) With respect to claim 89, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information signal” of line 2;
2. The “programming schedule” of line 2;
3. The “second of the plurality of receiver stations” of lines 3 and 4;
4. The “control signal” of line 1; which: a) transmits said first information signal according to a programming schedule; and b) controls the output of said first information transmission at the second of the plurality of receiver stations;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

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- 1) transmitting said first information transmission according to a programming schedule via the control signal; and
- 2) controlling the output of said first information transmission at said second of said plurality of receiver stations via the control signal.

90) With respect to claim 90, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” that is recited in line 2;
2. The “portion” of the first information transmission that, as is recited in line 2, is decrypted;
3. The “control signal” of line 1 which decrypts the portion of the first information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

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1) decrypting a portion of said first information transmission via said control signal.

91) With respect to claim 91, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “multimedia presentation” that is recited in line 3;
2. The “portion” of the multimedia presentation as is recited in line 3;
3. The “first information transmission” of line 3 which is outputted as the first portion of the multimedia presentation;
4. The “schedule” of line 2;
5. The “first information transmission” of line 2 which is transmitted according to the schedules;
6. The “control signal” of line 1 which: a) transmits the first information transmission according to a schedule; and b) outputs said first information transmission as a portion of a multimedia presentation.

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) transmitting, via the control signal, said first information transmission according to a schedule; and
- 2) outputting, via said control signal, said first information transmission as a portion of a multimedia presentation.

92) With respect to claim 92, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “plurality of receiver stations” that are recited in lines 1-4;
2. The “first of said plurality of receiver stations” as is recited in lines 1 and 2;
3. The “second of said plurality of receiver stations” as is recited in line 2;
4. The “identifier” of line 4 that is included in the control signal;
5. The “first information transmission” that is recited in line 3;
6. The “content of said first information transmission” of line 3 that is identified by each of said first and said second of said plurality of receiver stations;

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of including an identifier in said control signal.

93) With respect to claim 93, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “network” that is recited in line 1;
2. The “transmitter station” that is recited in line 2;
3. The “user station” that is recited in line 2;
4. The “processor” of line 2 which comprises the “user station”;
5. The “plurality of signals” of line 4 which are inputted to the transmitter station;
6. The “programming signal” of line 5 which was included within the plurality of signals which were inputted at the transmission station;

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7. The “processor instruction” of line 5 which was included within the plurality of signals which were inputted at the transmission station;
8. The “transmission time” of line 8;
9. The “transmission frequency” of line 9;
10. The “output network” of line 9;
11. The “identifier” of line 10;
12. The inputted “schedule” of line 6, which was associated with the inputted plurality of signals, and which designated for each of the inputted signals only two of the following: a) the transmission time; b) one of the transmission frequency and the output network; and c) the identifier;
13. The inputted “schedule” of line 6, which was associated with the inputted plurality of signals, and which designated for each of the inputted signals more than two of the following: a) the transmission time; b) one of the transmission frequency and the output network; and c) the identifier.
14. The “programming signal”, of each of the plurality of signals, that is communicated in accordance with said schedule as is required in line 11;
15. The “plurality of signals” in line 12 that is received at the user station;
16. The “programming” of line 13, that is contained in the programming signal of each of the plurality of signals that are received by the user station [note lines 4 and 5], that is outputted from the user station;

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17. The “information” of line 14 that is contained in the programming signal of each of the plurality of signals that are received by the user station [note lines 4 and 5];

18. The “user response” of line 14 that is inputted in response to the information that is contained in the programming signal of each of the plurality of signals that are received by the user station [note lines 4 and 5];

19. The “processor instruction” of line 16 which, in accordance with, the user response is processed.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a plurality of signals at said transmitter station, said plurality of signals including a programming signal and a processor instruction;
- 2) inputting a schedule associated with said plurality of signals, said schedule including a designation for each of said plurality of signals of at least two of:

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- (1) a transmission time;
 - (2) one of a transmission frequency and an output network; and
 - (3) an identifier;
- 3) communicating said programming signal in accordance with said schedule;
- 4) receiving said plurality of signals at said user station and outputting programming contained in said programming signal;
- 5) inputting a user response to information contained in said programming signal; and
- 6) processing said user response in accordance with said processor instruction.

94) With respect to claim 94, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “television programming” that is recited in lines 1-4;
2. The “radio programming” that is recited in lines 1-4;
3. The “identifier” of line 1 which can be used to identify television or radio programming;
4. The “first information transmission” that is recited in lines 3 and 4;

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5. The “television programming” of line 3 that is actively included in said “first information transmission”;

6. The “radio programming” of line 3 that is actively included in said “first information transmission”;

B) Where each of the following recited steps was described in the disclosure as originally filed:

1) The steps of actively including television and radio programming in the first information transmission

C) Where the method of claim 92 was described in the original disclosure [see section “92)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) identifying radio programming with said identifier and identifying television programming with said identifier;

2) including said television and radio programming in said first information transmission.

95) With respect to claim 95, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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1. The “video” that is recited in lines 1-3;
2. The “audio” that is recited in lines 1-3;
3. The “identifier” of line 1 which can be used to identify video and audio;
4. The “first information transmission” of line 3 into which the audio has been included;
5. The “first information transmission” of line 3 into which the video has been included;

B) Where each of the following recited steps was described in the disclosure as originally filed:

- 1) The steps of actively including audio and video in the first information transmission

C) Where the method of claim 92 was described in the original disclosure [see section “92)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) identifying video and identifying audio with an identifier;
- 2) including said one of said video and said audio in said first information transmission.

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96) With respect to claim 96, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “datum” that is recited in lines 1-3;
2. The “instruction” that is recited in lines 1-3;
3. The “identifier” of line 1 which can be used to identify datum and an instruction;
4. The “first information transmission” of line 3 into which the instruction has been actively included;
5. The “first information transmission” of line 3 into which the datum has been actively included.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 92 was described in the original disclosure [see section “92)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) the step of including said one of a datum and an instruction in said first information transmission.

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97) With respect to claim 97, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” that is being recited in lines 1-7;
2. The “second information transmission” that is being recited in line 5;
3. The “content” of the first information transmission that is being recited in line 3;
4. The “availability” of content of the first information transmission as is required by line 3;
5. The “use” of content of the first information transmission as is required by line 3;
6. The “usage” of content of the first information transmission as is required by line 3;
7. The “first of the plurality of receiver stations” and the “second of the plurality of receiver stations” that are recited in lines 1 and 2 wherein each receiver monitors only one of the availability, use, and usage of content of the first information transmission.
8. The “portion of information to be processed” of lines 5 and 6, which identifies said content of an information transmission and which can be

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added to either the recited first or to the recited second information transmission.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) monitoring one of availability, use, and usage of content of said first information transmission at each of the first of said plurality of receiver stations and each of the second of said plurality of receiver stations; and
- 2) including in one of said first information transmission and said second information transmission a portion of information to be processed that identifies said content of said information transmission.

98) With respect to claim 98, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission station” of line 2;
2. The “remote receiver station” of lines 2 and 3;

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3. The “system” which includes the transmission station and the remote receiver station as required in lines 2 and 3;
4. The “plurality of signals” of line 4 that are inputted to said system;
5. The “video programming” that is recited in line 6;
6. The “audio programming” that is recited in line 6;
7. The “computer programming” that is recited in line 6;
8. The “programming to be printed” that is recited in line 7;
9. The “multimedia signals” of line 5 which are included within the inputted plurality of signals wherein said included multimedia signals themselves were described as having included: a) only one of the video programming and the audio programming; and b) only one of the computer programming and the programming to be printed;
10. The “switch” of line 8, located in the transmission station, to which said multimedia signals are inputted and wherein the multimedia signals which were inputted to said switch were described as having included: a) only one of the video programming and the audio programming; and b) only one of the computer programming and the programming to be printed;

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11. The “processor” of line 8, located in the transmission station, to which said multimedia signals are inputted and wherein the multimedia signals which were inputted to said processor were described as having included:

a) only one of the video programming and the audio programming;

and b) only one of the computer programming and the programming to be printed;

12. Respective embodiments in which said “multimedia signals” were described as being inputted to only of the switch and to only the processor of the transmitter station as is required by the “one of” recitation of line 8;

13. The “timing instruction” of line 11;

13. The “switch” of line 10 that is controlled according to the timing instruction;

14. The “processor” of line 10 which is controlled according to the timing instruction;

15. Respective embodiments in which only one of the switch and processor was controlled by the timing instruction as appears to be required by the “one of” recitation in line 10;

16. The “programming kind” recited in line 12 which was contained in said multimedia signals wherein, as was defined in lines 5-7, said

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multimedia signals included: a) only one of the video programming and the audio programming; and b) only one of the computer programming and the programming to be printed;

17. The “subject matter” recited in line 12 which was contained in said multimedia signals wherein, as was defined in lines 5-7, said multimedia signals included: a) only one of the video programming and the audio programming; and b) only one of the computer programming and the programming to be printed;;

18. The “portion of said multimedia signals” whose processing was delayed as is required in lines 14 and 15 wherein, as was defined in lines 5-7, said multimedia signals included: a) only one of the video programming and the audio programming; and b) only one of the computer programming and the programming to be printed;

19. The “portion of said multimedia signals” whose communication was delayed as is required in lines 14 and 15 wherein, as was defined in lines 5-7, said multimedia signals included: a) only one of the video

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programming and the audio programming; and b) only one of the

computer programming and the programming to be printed;

20. The outputted "multimedia presentation" of line 16 which was based on said multimedia signals wherein, as defined in lines 5-7, said

multimedia signals included: a) only one of the video programming

and the audio programming; and b) only one of the computer

programming and the programming to be printed.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

1) inputting to said system said plurality of signals, wherein said plurality of signals includes multimedia signals, wherein said multimedia signals include:

(I) one of video programming and audio programming; and

(ii) one of computer programming and programming to be printed;

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- 2) inputting said multimedia signals to one of a switch and a processor at said transmission station;
- 3) controlling said one of a switch and a processor to communicate said multimedia signals to said remote receiver station according to a timing instruction;
- 4) determining one of a programming kind and subject matter contained in said multimedia signals;
- 5) delaying one of processing and communication of a portion of said multimedia signals; and
- 6) outputting a multimedia presentation based on said multimedia signals.

99) With respect to claim 99, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “storage device” o line 2;
2. The “portion of information” of lines 1 and 2 that is stored in said storage device;
3. The “second information transmission” that is recited in lines 3 and 4 of which said portion of information is included;

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2. The “control signal” that is recited in line 4.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 97 was described in the original disclosure [see section “97)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) storing said portion of information at a storage device based on said step of encoding; and
- 2) including said portion of information in said second information transmission before storing said control signal.

100) With respect to claim 100, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “plurality of receiver stations” which are recited in line 3;
2. The “processor” of line 2 which is located at each of the plurality of receiver stations;
3. The “code” of line 2 which is operative to control the processor of each of the plurality of receiver station;

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4. The “portion of information” of lines 1 and 2 which includes the code which is operative to control the processor of each of the plurality of receiver station;

5. The “information” of line 2 to which said portion of information belongs.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 99 was described in the original disclosure [see section “99)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) controlling a processor at each of the plurality of receiver stations via a code that is included in the portion of information.

101) With respect to claim 101, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “transmission location” that is recited in line 6;
2. The “time” that is recited in line 6;

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3. The “control signal” of lines 5 and 6 which is outputted from the storage device in only one of time and transmission location;

4. The recited “fashion of inputting the control signal to a storage device” which enables the storage device to output the control signal in only one of time and transmission location;

5. The “one of said first of said plurality of receiver stations” recited in lines 1 and 2 which can be programmed to process the control signal based on only one of transmission location and time as seems to be required via lines 1-4;

5. The “second of said plurality of receiver stations” recited in lines 1 and 2 which can be programmed to process the control signal based on only one of transmission location and time as seems to be required via lines 1-4;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

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- 1) Programming one of said first of said plurality of receiver stations and said second of said plurality of receiver stations process said control signal based on one of a transmission location and time; and wherein
- 2) said step of communicating comprises the step of inputting said control signal to a storage device in a fashion which enables said storage device to output said control signal in said one of a transmission location and time.

102) With respect to claim 102, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “interval of time” that is recited in lines 3 and 4;
2. The “predetermined time” that is recited in line 4;
3. The “control signal” of line 3 which is processed based on only one of the interval of time or the predetermined time;
4. The “one of said first plurality of receiver stations” of lines 1 and 2 that can be programmed to process said control signal based on one of the interval of time or the predetermined time;

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5. The “one said second plurality of receiver stations” of lines 1 and 2 that can be programmed to process said control signal based on one of the interval of time or the predetermined time;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 101 was described in the original disclosure [see section “101)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) programming said one of said first of said plurality of receiver stations and said second of said plurality of receiver stations to process said control signal based on one of an interval of time and a predetermined time.

103) With respect to claim 103, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “multimedia signals” of line 13;
2. The “receiver station” that is recited in line 12;
3. The “multimedia presentation” of line 12 that is outputted at the receiver station based on the multimedia signals;

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4. The “plurality of signals” of line 10 which are selectively passed to a processor at the receiver station;
5. The “one of the plurality of signals” in line 9 that is decrypted;
6. The “timing instruction” that is recited in line 8;
7. The “switch” of line 7 which can be controlled, in accordance with said timing instruction, to communicate said plurality of signals to the receiving station;
8. The “computer” of line 7 which can be controlled, in accordance with said timing instruction, to communicate said plurality of signals to the receiving station;
9. The “switch” and the “computer” of line 7, wherein only one of said switch and computer is controlled, in accordance with said timing instruction, to communicate said plurality of signals to the receiving station;
10. The “transmitter station” of line 5;
11. The “computer” of line 4 which is located at the transmitter station;
12. The “switch” of line 4 which is located at the transmitter station;

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13. The “plurality of signals” of line 4 which are inputted to only one of the switch and the computer of said transmitter station as is required by the “one of” recitation of line 4;
14. The “video programming” that is recited in line 6;
15. The “audio programming” that is recited in line 6;
16. The “data programming” that is recited in line 6;
17. The “multimedia signals” of line 6, which are included the plurality of signal which are inputted to the switch, which include only one of the video, audio, and data programming (i.e. as is required by the “at least one” recitation of line 6);
18. The “multimedia signals” of line 6, which are included the plurality of signal which are inputted to the switch, which include more than one of the video, audio, and data programming (i.e. as is required by the “at least one” recitation of line 6);
19. The “multimedia signals” of line 6, which are included the plurality of signal which are inputted to the computer, which include only one of the video, audio, and data programming (i.e. as is required by the “at least one” recitation of line 6);

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20. The “multimedia signals” of line 6, which are included the plurality of signal which are inputted to the computer, which include more than one of the video, audio, and data programming (i.e. as is required by the “at least one” recitation of line 6);

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a plurality of signals to one of a switch and a computer at said transmitter station, wherein said plurality of signals include multimedia signals, each of said multimedia signals including at least one of video, audio and data programming;
- 2) controlling said one of a switch and a computer to communicate said plurality of signals to said receiver station in accordance with a timing instruction;
- 3) decrypting one of said plurality of signals;
- 4) passing said plurality of signals selectively to a processor at said receiver station; and

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5) outputting a multimedia presentation at said receiver station based on said multimedia signals.

104) With respect to claim 104, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” that is recited in lines 3 and 4;
2. The “location” in the first information transmission that is recited in line 3;
3. The “control signal” of line 3 that is processed based on a location in the first information transmission;
4. The one of the first plurality of receivers” in lines 1 and 2 that can be programmed to process the control signal based on a location in the first information transmission;
5. The “one of said second plurality of receivers” in lines 1 and 2 that can be programmed to process the control signal based on a location in the first information transmission;

B) Where each of the following recited steps was described in the disclosure as originally filed:

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C) Where the method of claim 101 was described in the original disclosure [see section “101)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) programming one of said first of said plurality of receiver stations and said second of said plurality of receiver stations to process said control signal based on a location in said first information transmission.

105) With respect to claim 105, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “first information transmission” of line 2;
2. The “control signal” of line 2 that is actively embedded in the “first information transmission”;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 104 was described in the original disclosure [see section “104)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) embedding said control signal in said first information transmission.

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106) With respect to claim 106, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “storage device” of line 3;
2. The “first information transmission” of lines 2 and 3;
3. The “portion of the first information transmission” of lines 2 and 3 which is communicated to said storage device after the previously recited “step of encoding”.

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 104 was described in the original disclosure [see section “104)” of this paragraph] wherein said method further comprised the following sequence of steps:

the step of performing said step of encoding before a portion of said first information transmission is communicated to said storage device.

107) With respect to claim 107, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

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1. The “second portion of information” that is recited in line 6;
2. The “second portion of information” in line 5 to which is communicated, when selected, the “second portion of information” that is recited in line 6;
3. The “device” in line 5 to which is communicated, when selected, the “second portion of information” that is recited in line 6;
4. The “first portion of information” of line 3, which is included in the first information transmission, which enables one of the plurality of receiver stations to select a second portion of information to which to communicate a second portion of information;
5. The “first portion of information” of line 3, which is included in the first information transmission, which enables one of the plurality of receiver stations to select a device to which to communicate a second portion of information;
6. The “first portion of information” of line 3, which is included in the control signal, which enables one of the plurality of receiver stations to select a second portion of information to which to communicate a second portion of information;

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7. The “first portion of information” of line 3, which is included in the control signal, which enables one of the plurality of receiver stations to select a device to which to communicate a second portion of information;

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 8 was described in the original disclosure [see section “8)” of this paragraph] wherein said method further comprised the following sequence of steps:

1) including in one of said first information transmission and said control signal a first portion of information which enables one of said plurality of receiver stations to select one of a second portion of information and a device to which to communicate a second portion of information.

108) With respect to claim 108, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “receiver station” that is recited in line 2;
2. The transmitter station that is recited in line 2;
3. The “switch” of line 4 that is located at the transmitter station;

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4. The “computer” of line 4 which is located at the transmitter station;
5. The “video programming” that is recited in lines 5 and 6;
6. The “audio programming” that is recited in lines 5 and 6;
7. The “data programming” that is recited in lines 5 and 6;
8. The “plurality of signals” of line 5 which include only two of the video, audio, and data programming (i.e. as is required by the “two of” recitation of line 5);
9. The “plurality of signals” of line 5 which include the data programming and only one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5);
10. The “plurality of signals” of line 5 which include the video programming and only one of the audio and data programming (i.e. as is required by the “two of” recitation of line 5);
11. The “plurality of signals” of line 5 which include the audio programming and only one of the video and data programming (i.e. as is required by the “two of” recitation of line 5);
12. The “plurality of signals” of line 4, which include only two of the video, audio, and data programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to only one of said computer and

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said switch of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

13. The “plurality of signals” of line 4, which include the data programming and only one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said computer of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

14. The “plurality of signals” of line 4, which include the data programming and only one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said switch of the transmission station (i.e. as is required by the “one of” recitation of line 4).

15. The “plurality of signals” of line 4, which include the video programming and only one of the data and audio programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said computer of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

16. The “plurality of signals” of line 4, which include the video programming and only one of the data and audio programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said

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switch of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

17. The “plurality of signals” of line 4, which include the audio programming and only one of the video and data programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said computer of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

18. The “plurality of signals” of line 4, which include the audio programming and only one of the video and data programming (i.e. as is required by the “two of” recitation of line 5), which are inputted to said switch of the transmitter station (i.e. as is required by the “one of” recitation of line 4).

19. The “timing instruction” of line 8;

20. The “switch” and the “computer” of line 7, only one of which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” includes only two of the video, audio, and data programming (i.e. as is required by the “two of” recitation of line 5);

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21. The “switch” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the data programming and one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5);

22. The “switch” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the video programming and one of the audio and data programming (i.e. as is required by the “two of” recitation of line 5);

23. The “switch” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the audio programming and one of the video and data programming (i.e. as is required by the “two of” recitation of line 5);

24. The “computer” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said

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receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the data programming and one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5);

25. The “computer” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the video programming and one of the audio and data programming (i.e. as is required by the “two of” recitation of line 5);

26. The “computer” of line 7, which is controlled in accordance with the “timing instruction” to communicate “said plurality of signals” to said receiver station (i.e. see the “one of” recitation in line 7), wherein said “plurality of signals” include the audio programming and one of the video and data programming (i.e. as is required by the “two of” recitation of line 5);

27. The “processor” of line 9, located at the receiver station, to which is selectively passed “said plurality of signals”, wherein “said plurality of signals” that are passed to said processor includes only two of the video,

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audio, and data programming (i.e. as is required by the “two of” recitation of line 5);

28. The “processor” of line 9, located at the receiver station, to which is selectively passed “said plurality of signals”, wherein “said plurality of signals” that are passed to said processor includes the data programming and only one of the video and audio programming (i.e. as is required by the “two of” recitation of line 5);

29. The “processor” of line 9, located at the receiver station, to which is selectively passed “said plurality of signals”, wherein “said plurality of signals” that are passed to said processor includes the video programming and only one of the data and audio programming (i.e. as is required by the “two of” recitation of line 5);

30. The “processor” of line 9, located at the receiver station, to which is selectively passed “said plurality of signals”, wherein “said plurality of signals” that are passed to said processor includes the audio programming and only one of the video and data programming (i.e. as is required by the “two of” recitation of line 5);

31. The “multimedia presentation” that is recited in line 12 which is outputted at the receiver station based on a step of controlling a processor;

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting a plurality of signals to one of a switch and a computer at said transmitter station, wherein said plurality of signals includes two of video, audio and data programming;
- 2) controlling said one of a switch and a computer to communicate said plurality of signals to said receiver station in accordance with a timing instruction;
- 3) passing said plurality of signals selectively to a processor at said receiver station;
- 4) controlling said processor on the basis of information contained in said plurality of signals; and
- 5) outputting a multimedia presentation at said receiver station based on said step of controlling said processor.

109) With respect to claim 109, it is not clear:

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A) Where each of the following recited terms finds support in the disclosure as originally filed:

B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where the method of claim 3 was described in the original disclosure [see section “3)” of this paragraph] wherein said method further comprised the following sequence of steps:

- 1) communicating said second portion of information to said storage device; and
- 2) storing said second portion of information at said storage device.

110) With respect to claim 110, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 109 [see section “109)” of this paragraph] from which the present claim now depends:

said device to which to communicate said second portion of information comprises a computer and said second portion of information includes a first instruction to be communicated to said computer, said method further

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comprising the step of including said second portion of information in said control signal.

111) With respect to claim 111, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 110 [see section “110)” of this paragraph] from which the present claim now depends:

signal content enables said one of said plurality of receiver stations to communicate to a remote station information evidencing one of (I) receipt of a portion of said first information transmission and (ii) a function performed in response to a portion of said first information transmission, said method further comprising the step of including said signal content in one of said first information transmission and said control signal.

112) With respect to claim 112, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 111 [see section “111)” of this paragraph] from which the present claim now depends:

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said first portion of information controls said one of said plurality of receiver stations and said signal content is communicated to said remote station, said method further comprising one step from the group consisting of:

- 1) including an identifier in said signal content;
- 2) including said signal content in said first portion of information;
- and
- 3) including said first portion of information in said control signal.

113) With respect to claim 113, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 107 [see section “107)” of this paragraph] from which the present claim now depends:

said one of said plurality of receiver stations includes a computer and a plurality of first instructions program said computer to respond to one of a command and a second instruction, said method further comprising the steps of:

- 1) communicating said plurality of instructions to a storage device;
- and

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2) storing said plurality of instructions at said storage device.

114) With respect to claim 114, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 8 [see section “8)” of this paragraph] from which the present claim now depends:

said control signal controls said first of said plurality of receiver stations to transmit said first information transmission to said second of said plurality of receiver stations to control said second of said plurality of receiver stations.

115) With respect to claim 115, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

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said at least one control signal controls said first of said data receiver stations to compare said data to a programming schedule and to transmit said data according to said programming schedule.

116) With respect to claim 116, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said data according to a programming schedule and logs transmission of said data.

117) With respect to claim 117, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said data according to a programming schedule and generates statistics pertaining to said data.

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118) With respect to claim 118, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said data according to a programming schedule and identifies content of said data.

119) With respect to claim 119, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “multimedia signals” of line 1;
2. The “multimedia programming” of line 3;
3. The “transmission station” of line 2;
4. The “receiver station” of line 2;
5. The “optical disk player” of line 4;
6. The “video recorder/player” of line 4;
7. The “computer” of line 4;

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8. The “storage device” of line 4 which includes only two of: 1) the optical disk player, the video recorder/player; and a computer. More specifically, a described “storage device” must be shown which comprised each of the following alternatives: 1) the optical disk player and one of the video recorder/player and the computer; 2) the video recorder/player and one of the optical disk player and the computer; and 3) the computer and one of the optical disk player and the video recorder/player;
9. The “network” of line 6;
10. The “plurality of signals” that are inputted to said network as is recited in line 6;
11. The “multimedia signals” of line 7;
12. An embodiment in which only two of said plurality of inputted signals are the recited “multimedia signals” as is required by the “at least two” recitation of line 6. If all of the originally described “plurality of signals” are multimedia signals, and/or if “more than two” of the signals were multimedia signals, then the “at least two” recitation is not supported by the original disclosure because there was no original disclosure embodiment that is limited to only two as is now explicitly encompassed by the “at least two” recitation. The examiner is not saying that applicant is

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not entitled to a broad claim which encompasses a system which only comprises two multimedia signals, only that applicant is not entitled to a claim which explicitly recites a range that is limited to two multimedia signals as is currently claim. Similar clarification are needed throughout the pending claims.

13. The “receiver specific video programming” that is required in line 8;

14. The “receiver specific audio programming” that is required in line 8;

15. The “receiver specific data programming” that is required in line 8;

16. The “embedded identifier” of line 9;

17. The “processor” at the transmission station of lines 10 and 11;

18. The “switch” at the transmitter station of lines 10 and 11;

19. The “receiver station” of lines 12 and 13 to which is communicated, i.e. via said switch, said “plurality of video signals” which were: a) inputted to said switch and processor at the transmission station as set forth in lines 10 and 11; and b) inputted to said network as set forth in lines 6-9);

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20. The “timing instructions” of line 13;
21. The “programming” of line 14 that is inputted to said switch;
22. The “programming” of lines 17 and 18 that is stored at the processor;
23. The “instruct-to-coordinate signal” of line 15 that is communicated to the receiver station;
24. The “multimedia signals” of line 16 and 17 whose processing is delayed;
25. The “multimedia signals” of lines 16 and 17 whose communication is delayed;
26. The “processing of multimedia signals” that is delayed in response to only one of: a) said communicated instruct-to-coordinate signal; and b) the programming that was stored at said processor. More specifically:
 - a) the “processing of multimedia signals” that is delayed in response to said communicated instruct-to-coordinate signal; and
 - b) the “processing of multimedia signals” that is delayed in response to the programming that was stored at said processor.
27. The “communication of multimedia signals” that is delayed in response to only one of: a) said communicated instruct-to-coordinate signal; and b) the programming that was stored at said processor. More

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specifically: a) the “communication of multimedia signals” that is delayed in response to said communicated instruct-to-coordinate signal; and b) the “communication of multimedia signals” that is delayed in response to the programming that was stored at said processor.

29. The “receiver” of line 19 which is located at said receiver station;

30. The “specific time” of line 20;

31. The “specific place” of line 20;

32. The “multimedia programming” of line 19 which is presented to said

receiver at only one of the specific time or the specific place. More

specifically: a) the “multimedia programming” of line 19 which was

presented to the receiver at “the specific time”; and b) the “multimedia

programming” of line 19 which was presented to the receiver at “the

specific location”.....WHEREIN this presented multimedia

programming was also contained in the multimedia signals of said

“at least two of said plurality of signals” of lines 6 and 7, which “at least

two signals”: a) were inputted to the network; b) were inputted to the

switch and processor at the transmission station; AND c) were

communicated to the receiver station by said switch according to said

timing instructions.

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B) Where each of the following recited steps was described in the disclosure as originally filed:

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) inputting to said network a plurality of signals, wherein at least two of said plurality of signals are multimedia signals, each of said multimedia signals including receiver station specific one of video, audio and data programming, said multimedia signals further including an embedded identifier;
- 2) inputting said plurality of signals to a switch and a processor at said transmission station;
- 3) controlling said switch to communicate said plurality of signals to said receiver station according to timing instructions;
- 4) identifying programming inputted to said switch;
- 5) communicating an instruct-to-coordinate signal to said receiver station;
- 6) delaying at least one of processing and communication of said multimedia signals in response to one of said instruct-to-coordinate signal and programming stored at said processor; and

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7) presenting multimedia programming to a receiver at said receiver station at one of a specific time and a specific place in response to said instruct-to-coordinate signal, said multimedia programming contained in said multimedia signals.

120) With respect to claim 120, it is not clear:

A) Where each of the following recited terms finds support in the disclosure as originally filed:

1. The “receiver stations” of line 2.
2. The “different fashions” of line 2 in which said receiver stations function;
3. The “processor” of line 3 which is contained in each receiver station;
4. The “storage device” of line 5;
5. The “information transmission” of line 4 that is received;
6. The “information transmission” of line 4 that is communicated to a storage device;
7. The “information transmission” of line 7 whose portion is identified and processed;
8. The “information transmission” of line 16 which is stored with a signal at said storage device;

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9. The “portion of the information transmission” of line 7 that is identified and processed by each of the plurality of receiver stations, and wherein each station processes said portion of the information transmission in a different fashion.

10. The “portion of the information transmission” of line 7 that is identified and processed by each of the plurality of receiver stations, and wherein each station processes a different portion of the information transmission in a different fashion.

11. The “signal” of line 6 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion.

12. The “signal” of line 6 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

13. The “group” of line 11 which, as is defined when lines 12 and 13 are read back on lines 6-10, consists of each of the following:

a) a time at which to communicate “said signal” of lines 6-10

which is operative to cause each receiver station to identify and

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process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion;

b) a time at which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

c) a storage location to which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion; AND

d) a storage location to which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission

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wherein each station processes a different portion of the information transmission in a different fashion.

14. The “time” of line 12;
15. The “selected time” of line 14;
16. The “storage location” of line 13;
17. The “selected storage location” of lines 14 and 15
18. The “said signal” of line 16 which is stored at said storage device; i.e. does it refer to all of the different “said signals” which are defined by the recitations of lines 6-13 [see part “13.” above];
19. The “different fashion” of line 18 in which said receiver stations operate.

B) Where each of the following recited steps was described in the disclosure as originally filed:

- 1) As is recited in lines 11-13, **the active step** of SELECTING ONE from the group consisting of:
 - a) a time at which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each

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station processes said portion of the information transmission in a different fashion;

b) a time at which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

c) a storage location to which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion; AND

d) a storage location to which to communicate “said signal” of lines 6-10 which is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

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2) As is recited in lines 14 and 15, **the active step** of communicating:

a) “said signal” of lines 6-10 at a selected time wherein the communicated signal is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion;

b) “said signal” of lines 6-10 at a selected time wherein the communicated signal is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

c) “said signal” of lines 6-10 to a selected storage location wherein said communicated signal is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes said portion of the information transmission in a different fashion; AND

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d) “said signal” of lines 6-10 to a selected storage location wherein said signal is operative to cause each receiver station to identify and process a portion of the information transmission wherein each station processes a different portion of the information transmission in a different fashion.

C) Where a method which comprised the following sequence of steps was described in the disclosure as originally filed:

- 1) receiving an information transmission and communicating said information transmission to a storage device;
- 2) receiving a signal which is operative to cause each of said plurality of receiver stations to identify and process a portion of said information transmission, wherein said plurality of receiver stations one of:
 - (I) process a portion of said information transmission in different fashions; and
 - (ii) process different portion of said information transmission;
- 3) selecting one of the group consisting of:
 - (1) a time at which to communicate said signal; and
 - (2) a storage location to which to communicate said signal;
- 4) communicating said signal one of:

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(I) at a selected time; and

(ii) to a selected storage location based on said step of selecting;

and

5) storing said information transmission and said signal at said storage device, wherein said method processes signals to causes said plurality of receiver stations to function in different fashions.

121) With respect to claim 121, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said data according to a programming schedule and outputs an identifier of said data to a remote data collection station.

122) With respect to claim 122, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal identifies content of said data and controls a switch to communicate said content.

123) With respect to claim 123, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal identifies one of said data and delays transmission of said one of said data.

124) With respect to claim 124, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal selects a storage location and stores one of said data at said selected storage location.

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125) With respect to claim 125, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

at least one control signal further delays transmission of one of said data.

126) With respect to claim 126, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal further controls said second of said data receiver stations to receive one of said data.

127) With respect to claim 127, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said data according to a transmission schedule and controls said second of said data receiver stations to store said data.

128) With respect to claim 128, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal causes said network to transmit said data at a specific time and to generate output information by processing said data.

129) With respect to claim 129, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal further generates information to complete content of said information transmission and outputs said generated information and said content.

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130) With respect to claim 130, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section "13)" of this paragraph] from which the present claim now depends:

at least one control signal controls said network to transmits said data according to a programming schedule and processes a response to information contained in said data.

131) With respect to claim 131, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section "13)" of this paragraph] from which the present claim now depends:

said at least one control signal transmits said data according to a programming schedule and controls the output of said data at said second of said data receiver stations.

132) With respect to claim 132, it is not clear:

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A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal decrypts a portion of said data.

133) With respect to claim 133, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal causes said network to transmit said data according to a schedule and outputs said data as a portion of a multimedia presentation by processing said data.

134) With respect to claim 134, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

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Said first of said data receiver stations and said second of said data receiver stations each identify content of said data by processing said at least one control signal, said method further comprising the step of including an identifier in said at least one control signal.

135) With respect to claim 135, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 134 [see section “134)” of this paragraph] from which the present claim now depends:

said identifier identifies one of television and radio programming, said method further comprising the step of including said one of television and radio programming in said information transmission.

136) With respect to claim 136, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 134 [see section “134)” of this paragraph] from which the present claim now depends:

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said identifier identifies one of video and audio, said method further comprising the step of including said one of video and audio in said information transmission.

137) With respect to claim 137, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 134 [see section “134)” of this paragraph] from which the present claim now depends:

said identifier identifies one of a datum and an instruction and said method further comprising the step of including said one of a datum and an instruction in said data.

138) With respect to claim 138, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said first of said data receiver stations and said second of said data receiver stations each monitor one of availability, use, and usage of content of said

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data, said method further comprising the step of including in said information transmission a portion of information to be processed that identifies said content of said data.

139) With respect to claim 139, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 138 [see section “138)” of this paragraph] from which the present claim now depends:

said portion of information is stored at said data storage device based on said step of transmitted.

140) With respect to claim 140, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 139 [see section “139)” of this paragraph] from which the present claim now depends:

said portion of information includes code which is operative to control said computer at each of said, data receiver stations, said method further

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comprising the step of including said code in said at least one control signal.

141) With respect to claim 141, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

one of said first of said data receiver stations and said second of said data receiver stations is programmed to process said at least one control signal based on one of a transmission location and time, and said method further comprising the step of outputting said at least one control signal in said one of a transmission location and time.

142) With respect to claim 142, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 141 [see section “141)” of this paragraph] from which the present claim now depends:

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said one of said first of said data receiver stations and said second of said data receiver stations is programmed to process said at least one control signal based on one of an interval of time and a predetermined time.

143) With respect to claim 143, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 141 [see section “141)” of this paragraph] from which the present claim now depends:

said one of said first of said data receiver stations and said second of said data receiver stations is programmed to process said at least one control signal based on a location in said information transmission.

144) With respect to claim 144, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 143 [see section “143)” of this paragraph] from which the present claim now depends:

the step of embedding said at least one control signal in said information transmission.

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145) With respect to claim 145, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 143 [see section “143)” of this paragraph] from which the present claim now depends:

said at least one control signal is transmitted from said origination station before a portion of said information transmission is transmitted.

146) With respect to claim 146, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

1) including in one of said data and said at least one control signal a first portion of information which enables one of said data receiver stations to select one of a second portion of information and a device to which to communicate a second portion of information.

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147) With respect to claim 147, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 146 [see section “146)” of this paragraph] from which the present claim now depends:

- 1) communicating said second portion of information to a storage device;
- and
- 2) storing said second portion of information.

148) With respect to claim 148, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 147 [see section “147)” of this paragraph] from which the present claim now depends:

said device to which to communicate said second portion of information comprises a computer and said second portion of information includes a first instruction to be communicated to said computer, said method further comprising the step of including said second portion of information in said at least one control signal.

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149) With respect to claim 149, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 148 [see section “148)” of this paragraph] from which the present claim now depends:

signal content enables said one of said data receiver stations to communicate to a remote station information evidencing one of (I) receipt of a portion of said information transmission and (ii) a function performed in response to a portion of said information transmission, said method further comprising the step of including said signal content in one of said data and said at least one control signal.

150) With respect to claim 150, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 149 [see section “149)” of this paragraph] from which the present claim now depends:

said first portion of information controls said one of said data receiver stations and said signal content is communicated to said remote station, said method further comprising one step from the group consisting of:

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- 1) including an identifier in said signal content;
- 2) including said signal content in said first portion of information;
- and
- 3) including said first portion of information in said at least one control signal.

151) With respect to claim 151, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 146 [see section “146)” of this paragraph] from which the present claim now depends:

said one of said data receiver stations includes a computer and a plurality of first instructions program said computer to respond to one of a command and a second instruction, said method further comprising one of the group consisting of:

- 1) transmitting said plurality of first instructions; and
- 2) transmitting one of a command and a second instruction.

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152) With respect to claim 152, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 13 [see section “13)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said first of said data receiver stations to transmit said data to said second of said data receiver stations to control said second of said data receiver stations.

153) With respect to claim 153, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said first of said programming receiver stations to compare said mass medium programming to a programming schedule and to transmit said mass medium programming according to said programming schedule.

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154) With respect to claim 154, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said mass medium programming according to a programming schedule and logs transmission of said mass medium programming.

155) With respect to claim 155, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said mass 'medium programming according to a programming schedule and generates statistics pertaining to said mass medium programming.

156) With respect to claim 156, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said mass medium programming according to a programming schedule and identifies content of said mass medium programming.

157) With respect to claim 157, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said mass medium programming according to a programming schedule and outputs an identifier of said mass medium programming to a remote data collection station.

158) With respect to claim 158, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

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Said at least one control signal identifies content of said mass medium programming and controls a switch to communicate said content.

159) With respect to claim 159, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal identifies content of said mass medium programming and delays transmission of said content.

160) With respect to claim 160, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal selects a storage location and stores a portion of said mass medium programming at said selected storage location.

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161) With respect to claim 161, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal further delays transmission of said mass medium programming.

162) With respect to claim 162, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal further controls said second of said programming receiver stations to receive said mass medium programming.

163) With respect to claim 163, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said mass medium programming according to a transmission schedule and controls said second of said programming receiver stations to store said mass medium programming.

164) With respect to claim 164, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said network to transmit said mass medium programming at a specific time and to generate and output information.

165) With respect to claim 165, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

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said at least one control signal controls said network to generate information to complete said mass medium programming and to output said generated information with said mass medium programming.

166) With respect to claim 166, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

at least one control signal controls said network to transmits said mass medium programming according to a programming schedule and processes a response at said second of said programming receiver stations to information contained in said information transmission.

167) With respect to claim 167, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said mass medium programming according to a programming schedule and controls the output of said mass medium programming at said second of said programming receiver stations.

168) With respect to claim 168, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section "18)" of this paragraph] from which the present claim now depends:

said at least one control signal decrypts a portion of said mass medium programming.

169) With respect to claim 169, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section "18)" of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said mass medium programming according to a schedule and outputs said mass medium programming as a portion of a multimedia presentation.

170) With respect to claim 170, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

said first of said programming receiver stations and said, second of said programming receiver stations each identify content of said mass medium programming by processing said at least one control signal, said method further comprising the step of including an identifier in said at least one control signal.

171) With respect to claim 171, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 170 [see section “170)” of this paragraph] from which the present claim now depends:

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said identifier identifies one of television and radio programming, said method further comprising the step of including said one of television and radio programming in said mass medium programming.

172) With respect to claim 172, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 170 [see section “170)” of this paragraph] from which the present claim now depends:

said identifier identifies one of video and audio, said method further comprising the step of including said one of video and audio in said mass medium programming.

173) With respect to claim 173, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 170 [see section “170)” of this paragraph] from which the present claim now depends:

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said identifier identifies one of a datum and an instruction, said method further comprising the step of including said one of a datum and an instruction in said mass medium programming.

174) With respect to claim 174, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

Said first of said programming receiver stations and said second of said programming receiver stations each monitor one of availability, use, and usage of content of said mass medium programming, said method further comprising the step of including in said information transmission a portion of information to be processed that identifies said content of said mass medium programming.

175) With respect to claim 175, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 174 [see section “174)” of this paragraph] from which the present claim now depends:

said portion of information is stored at a storage device based on said step of transmitting.

176) With respect to claim 176, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 175 [see section “175)” of this paragraph] from which the present claim now depends:

said portion of information includes code which is operative to control said processor at each of said programming receiver stations, said method further comprising the step of including said code in said at least one control signal.

177) With respect to claim 177, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

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one of said first of said programming receiver stations and said second of said programming receiver stations is programmed to process said at least one control signal based on one of a transmission location and time, said method further comprising the step of outputting said at least one control signal in said one of a transmission location and time.

178) With respect to claim 178, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 177 [see section “177)” of this paragraph] from which the present claim now depends:

said one of said first of said programming receiver stations and said second of said programming receiver stations is programmed to process said at least one control signal based on one of an interval of time and a predetermined time.

179) With respect to claim 179, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 177 [see section “177)” of this paragraph] from which the present claim now depends:

said one of said first of said programming receiver stations and said second of said programming receiver stations is programmed to process said at least one control signal based on a location in said information transmission.

180) With respect to claim 180, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 179 [see section “179)” of this paragraph] from which the present claim now depends:

the step of embedding said at least one control signal in said information transmission.

181) With respect to claim 181, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 180 [see section “180)” of this paragraph] from which the present claim now depends:

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the step embedding a portion of said mass medium programming before said mass medium programming is transmitted.

182) With respect to claim 182, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

1) including in one of said mass medium programming and said at least one control signal a first portion of information which enables one of said programming receiver stations to select one of a second portion of information and a device to which to communicate a second portion of information.

183) With respect to claim 183, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 182 [see section “182)” of this paragraph] from which the present claim now depends:

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- 1) communicating said second portion of information to a storage device;
and
- 2) storing said second portion of information.

184) With respect to claim 184, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 183 [see section “183)” of this paragraph] from which the present claim now depends:

said device to which to communicate said second portion of information comprises a computer and said second portion of information includes a first instruction to be communicated to said computer, said method further comprising the step of including said second portion of information in said at least one control signal.

185) With respect to claim 185, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 184 [see section “184)” of this paragraph] from which the present claim now depends:

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signal content enables said one of said programming receiver stations to communicate to a remote station information evidencing one of (i) receipt of a portion of said information transmission and (ii) a function performed in response to a portion of said information transmission, said method further comprising the step of including said signal content in one of said mass medium programming and said at least one control signal.

186) With respect to claim 186, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 185 [see section “185)” of this paragraph] from which the present claim now depends:

said first portion of information controls said one of said programming receiver stations and said signal content is communicated to said remote station, said method further comprising one step from the group consisting of:

- 1) including an identifier in said signal content;
 - 2) including said signal content in said first portion of information;
- and

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3) including said first portion of information in said at least one control signal.

187) With respect to claim 187, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 182 [see section “182)” of this paragraph] from which the present claim now depends:

said one of said programming receiver stations includes a computer and a plurality of first instructions program said computer to respond to one of a command and a second instruction, said method further comprising one step of the group consisting of:

- 1) transmitting said plurality of first instructions; and
- 2) transmitting said one of a command and a second instruction.

188) With respect to claim 188, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 18 [see section “18)” of this paragraph] from which the present claim now depends:

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said at least one control signal controls said first of said programming receiver stations to transmit said mass medium programming to said second of said programming receiver stations to control said second of said programming receiver stations.

189) With respect to claim 189, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said first of said receiver stations to compare said information transmission to a programming schedule and to transmit said information transmission according to said programming schedule.

190) With respect to claim 190, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said information transmission according to a programming schedule and logs transmission of said information transmission.

191) With respect to claim 191, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said information transmission according to a programming schedule and generates statistics pertaining to said information transmission.

192) With respect to claim 192, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said information transmission according to a programming schedule and identifies content of said information transmission.

193) With respect to claim 193, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal transmits said information transmission according to a programming schedule and outputs an identifier of said information transmission to a remote data collection station.

194) With respect to claim 194, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal identifies content of said information transmission and controls a switch to communicate said content.

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195) With respect to claim 195, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal identifies content of said information transmission and delays transmission of said content.

196) With respect to claim 196, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal selects a storage location and stores a portion of said information transmission at said selected storage location.

197) With respect to claim 197, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 23 [see section “23)” of this paragraph] from which
the present claim now depends:

said at least one control signal further delays transmission of said
information transmission.

198) With respect to claim 198, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps
and the explicitly recited terminology, finds support in the original disclosure
within the context of claim 23 [see section “23)” of this paragraph] from which
the present claim now depends:

said at least one control signal further controls said second of said receiver
stations to receive said information transmission.

199) With respect to claim 199, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps
and the explicitly recited terminology, finds support in the original disclosure
within the context of claim 23 [see section “23)” of this paragraph] from which
the present claim now depends:

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said at least one control signal transmits said information transmission according to a transmission schedule and controls said second of said receiver stations to store said information transmission.

200) With respect to claim 200, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said network to transmit said information transmission at a specific time and to generates output information.

201) With respect to claim 201, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

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said at least one control signal controls said network to generate information to complete said information transmission and to output said generated information with said information transmission.

202) With respect to claim 202, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

at least one control signal controls said network to transmit said information transmission according to a programming schedule and to process a response at said second of said programming receiver stations to information contained in said information transmission.

203) With respect to claim 203, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said information transmission according to a programming schedule and controls the output of said information transmission at said second of said receiver stations.

204) With respect to claim 204, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section "23)" of this paragraph] from which the present claim now depends:

said at least one control signal decrypts a portion of said information transmission.

205) With respect to claim 205, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section "23)" of this paragraph] from which the present claim now depends:

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said at least one control signal transmits said information transmission according to a schedule and outputs said information transmission as a portion of a multimedia presentation.

206) With respect to claim 206, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said first of said receiver stations and said second of said receiver stations each identify content of said information transmission by processing one of said at least one control signal and said at least one designation signal, said method further comprising the step of including an identifier in said one of said at least one control signal and said at least one designation signal.

207) With respect to claim 207, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 206 [see section “206)” of this paragraph] from which the present claim now depends:

said identifier identifies one of television and radio programming, said method further comprising the step of including said one of television and radio programming in said information transmission.

208) With respect to claim 208, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 206 [see section “206)” of this paragraph] from which the present claim now depends:

said identifier identifies one of video and audio, said method further comprising the step of including said one of video and audio in said information transmission.

209) With respect to claim 209, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 206 [see section “206)” of this paragraph] from which the present claim now depends:

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said identifier identifies one of a datum and an instruction, said method further comprising the step of including said one of a datum and an instruction in said information transmission.

210) With respect to claim 210, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said first of said receiver stations and said second of said receiver stations each monitor one of availability, use, and usage of content of said information transmission, said method further comprising the step of including in said information transmission a portion of information to be processed that identifies said content of said information transmission.

211) With respect to claim 211, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 210 [see section “210)” of this paragraph] from which the present claim now depends:

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said portion of information is stored at a storage device based on said step of transmitting.

212) With respect to claim 212, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 210 [see section "210)" of this paragraph] from which the present claim now depends:

said portion of information includes code which is operative to control said processor at each of said receiver stations, said method further comprising the step of including said code in one of said at least one control signal and said at least one of said designation channel.

213) With respect to claim 213, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section "23)" of this paragraph] from which the present claim now depends:

one of said first of said receiver stations and said second of said receiver stations is programmed to process one of said at least one control signal

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and said at least one designation signal based on one of a transmission location and time, said method further comprising the step of outputting said one of said at least one control signal and said designation signal in said one of a transmission location and time.

214) With respect to claim 214, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 213 [see section "213)" of this paragraph] from which the present claim now depends:

said one of said first of said receiver stations and said second of said receiver stations is programmed to process said one of said at least one control signal and said designation signal based on one of an interval of time and a predetermined time.

215) With respect to claim 215, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 213 [see section "213)" of this paragraph] from which the present claim now depends:

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said one of said first of said receiver stations and said second of said receiver stations is programmed to process one of said at least one control signal and said at least one designation signal based on a location in said information transmission.

216) With respect to claim 216, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 215 [see section “215)” of this paragraph] from which the present claim now depends:

the step of embedding said one of said at least one control signal and said at least one designation signal in said information transmission.

217) With respect to claim 217, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 215 [see section “215)” of this paragraph] from which the present claim now depends:

the step of embedding a portion of said information transmission before said information transmission is transmitted.

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218) With respect to claim 218, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

- 1) including in one of said information transmission a first portion of information which enables one of said receiver stations to select one of a second portion of information and a device to which to communicate a second portion of information.

219) With respect to claim 219, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 218 [see section “218)” of this paragraph] from which the present claim now depends:

said at least one control signal is addressed to a device in said a least one receiver station, said method further comprising one of the group consisting of:

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- 1) including said first portion of information in said at least one designation signal; and
- 2) including said second portion of information signal in said at least one control signal.

220) With respect to claim 220, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 219 [see section “219)” of this paragraph] from which the present claim now depends:

said device to which to communicate said second portion of information comprises a computer and said second portion of information includes a first instruction to be communicated to said computer.

221) With respect to claim 221, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 220 [see section “220)” of this paragraph] from which the present claim now depends:

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signal content enables said one of said receiver stations to communicate to a remote station information evidencing one of (i) receipt of a portion of said information transmission and (ii) a function performed in response to a portion of said information transmission, said method further comprising the step of including said signal content in said information transmission.

222) With respect to claim 222, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 221 [see section “221)” of this paragraph] from which the present claim now depends:

said first portion of information controls said one of said receiver stations and said signal content is communicated to said remote station, said method further comprising one step from the group consisting of:

- 1) including an identifier in said signal content;
- 2) including said signal content in said first portion of information;
- 3) including said first portion of information in said at least one control signal; and
- 4) including said at least one designation signal in said at least one control signal.

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223) With respect to claim 223, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 218 [see section “218)” of this paragraph] from which the present claim now depends:

said one of said receiver stations includes a computer and a plurality of first instructions program said computer to respond to one of a command and a second instruction, said method further comprising one step from the group consisting of:

- 1) transmitting said plurality of first instructions; and
- 2) transmitting one of a command and a second transmission.

224) With respect to claim 224, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 23 [see section “23)” of this paragraph] from which the present claim now depends:

said at least one control signal controls said first of said receiver stations to transmit said information transmission to said second of said receiver stations to control said second of said receiver stations.

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225) With respect to claim 225, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 2 [see section “2)” of this paragraph] from which the present claim now depends:

said step of logging includes constructing a record.

226) With respect to claim 226, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 225 [see section “225)” of this paragraph] from which the present claim now depends:

said identifier identifies one of a plurality of channels and a record is constructed for each of said plurality of channels.

227) With respect to claim 227, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 225 [see section “225)” of this paragraph] from which the present claim now depends:

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the step of transmitting said record to a remote site.

228) With respect to claim 228, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said signal is contained in a television programming transmission.

229) With respect to claim 229, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said signal includes an identifier.

230) With respect to claim 230, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 229 [see section “229)” of this paragraph] from which the present claim now depends:

said network transmits one of said signal and said identifier via telephone network.

231) With respect to claim 231, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said step of comparing is performed at said transmitter station.

232) With respect to claim 232, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

one of said step of comparing and said step of determining is performed at said receiver station.

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233) With respect to claim 233, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said step of determining includes determining one of a channel and a frequency.

234) With respect to claim 234, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said step of determining includes determining a portion of a broadband information transmission.

235) With respect to claim 235, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 26 [see section “26)” of this paragraph] from which the present claim now depends:

said step of determining includes determining a location from which signal is transmitted or is to be transmitted.

236) With respect to claim 236, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 31 [see section “31)” of this paragraph] from which the present claim now depends:

the step of storing said selected portion of said signal.

237) With respect to claim 237, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 31 [see section “31)” of this paragraph] from which the present claim now depends:

said selected portion of said signal includes said first identifier.

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238) With respect to claim 238, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 31 [see section “31)” of this paragraph] from which the present claim now depends:

the step of tuning to receive programming contained in said signal based on one of said first identifier and said step of selecting.

239) With respect to claim 239, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 36 [see section “36)” of this paragraph] from which the present claim now depends:

the step of tuning to receive said programming.

240) With respect to claim 240, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 239 [see section “239)” of this paragraph] from which the present claim now depends:

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the step inputting said programming to a computer.

241) With respect to claim 242, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 41 [see section “41)” of this paragraph] from which the present claim now depends:

the step of selecting a second of said plurality of signals according to said schedule.

242) With respect to claim 242, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 41 [see section “41)” of this paragraph] from which the present claim now depends:

the step of responding to said signal.

243) With respect to claim 243, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 242 [see section “242)” of this paragraph] from which the present claim now depends:

said step of responding to said signal is performed at said transmission station.

244) With respect to claim 244, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 41 [see section “41)” of this paragraph] from which the present claim now depends:

said step of outputting is performed at said transmission station.

245) With respect to claim 245, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 41 [see section “41)” of this paragraph] from which the present claim now depends:

said step of outputting is performed at a receiver station.

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246) With respect to claim 246, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 245 [see section “245)” of this paragraph] from which the present claim now depends:

said receiver station receives said signal from said transmission station.

247) With respect to claim 247, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 41 [see section “41)” of this paragraph] from which the present claim now depends:

the step of communicating said signal to an addressed device.

248) With respect to claim 248, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 247 [see section “247)” of this paragraph] from which the present claim now depends:

said step of communicating is based on said step of identifying.

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249) With respect to claim 249, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 46 [see section “46)” of this paragraph] from which the present claim now depends:

selecting a second of said plurality of signals according to said schedule.

250) With respect to claim 250, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 64 [see section “64)” of this paragraph] from which the present claim now depends:

- 1) selecting a storage location; and
- 2) storing said signal at said storage location.

251) With respect to claim 251, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 64 [see section “64)” of this paragraph] from which the present claim now depends:

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said signal is one of a plurality of signals.

252) With respect to claim 252, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 251 [see section “251)” of this paragraph] from which the present claim now depends:

the step of reordering said plurality of signals.

253) With respect to claim 253, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 65 [see section “65)” of this paragraph] from which the present claim now depends:

said plurality of signals include audio programming and data programming.

254) With respect to claim 254, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 65 [see section “65)” of this paragraph] from which the present claim now depends:

said one signal includes one of audio programming and data programming.

255) With respect to claim 255, it is not clear:

A) Where all of the following recitations, e.g. the explicitness/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 65 [see section “65)” of this paragraph] from which the present claim now depends:

said plurality of signals include video programming and audio programming for simultaneous output to a viewer and said one signal includes audio programming.

256) With respect to claim 256, it is not clear:

A) Where all of the following recitations, e.g. the explicitness/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 70 [see section “70)” of this paragraph] from which the present claim now depends:

said signal is one of a plurality of signals.

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257) With respect to claim 257, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 256 [see section “256)” of this paragraph] from which the present claim now depends:

the step of storing said plurality of signals in an order.

258) With respect to claim 258, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 256 [see section “256)” of this paragraph] from which the present claim now depends:

the step of reordering said plurality of signals.

259) With respect to claim 259, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 75 [see section “75)” of this paragraph] from which the present claim now depends:

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said processor is located at a receiver station remote from said transmission station.

260) With respect to claim 260, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said selected information is detected in said comparison signal.

261) With respect to claim 261, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said comparison signal includes a plurality of identifiers.

262) With respect to claim 262, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said receiver station includes a plurality of receivers.

263) With respect to claim 263, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 262 [see section “262)” of this paragraph] from which the present claim now depends:

- 1) receiving said selected information at a first of said plurality of receivers; and
- 2) receiving said portion of said information transmission at a second of said plurality of receivers.

264) With respect to claim 264, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said step of receiving includes actuating a receiver.

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265) With respect to claim 265, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 85 [see section “85)” of this paragraph] from which the present claim now depends:

said step of receiving includes controlling a tuner.

266) With respect to claim 266, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said step of receiving includes controlling a storage device.

267) With respect to claim 267, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said selected information is detected in said information transmission.

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268) With respect to claim 268, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said programming signal includes an identifier.

269) With respect to claim 269, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 80 [see section “80)” of this paragraph] from which the present claim now depends:

said programming signal includes said comparison signal.

270) With respect to claim 270, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 85 [see section “85)” of this paragraph] from which the present claim now depends:

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said step of causing includes one of selecting a frequency and tuning a receiver.

271) With respect to claim 271, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 85 [see section “85)” of this paragraph] from which the present claim now depends:

said step of causing includes identifying said one of said plurality of signals.

272) With respect to claim 272, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 88 [see section “88)” of this paragraph] from which the present claim now depends:

the step of programming said computer to respond to at least one control signal embedded in a television signal.

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273) With respect to claim 273, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 88 [see section “88)” of this paragraph] from which the present claim now depends:

the step of programming said transmission station to detect at least one control signal embedded in a television signal.

274) With respect to claim 274, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 93 [see section “93)” of this paragraph] from which the present claim now depends:

said user response is inputted by a computer.

275) With respect to claim 275, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 93 [see section “93)” of this paragraph] from which the present claim now depends:

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said user response is inputted by a viewer.

276) With respect to claim 276, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 93 [see section “93)” of this paragraph] from which the present claim now depends:

the step selecting one of said plurality of signals based on said user response.

277) With respect to claim 277, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 276 [see section “276)” of this paragraph] from which the present claim now depends:

the step of outputting information at said user station based on said step of selecting.

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278) With respect to claim 278, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 277 [see section “277)” of this paragraph] from which the present claim now depends:

the step of detecting said outputted information in said selected one of said plurality of signals.

279) With respect to claim 279, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 277 [see section “277)” of this paragraph] from which the present claim now depends:

the step of generating said outputted information in response to said selected one of said plurality of signals.

280) With respect to claim 280, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure

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within the context of claim 98 [see section “98)” of this paragraph] from which the present claim now depends:

said timing instruction includes a schedule.

281) With respect to claim 281, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 280 [see section “280)” of this paragraph] from which the present claim now depends:

the step of causing said transmission station to transmit said plurality of signals in accordance with said schedule.

282) With respect to claim 282, it is not clear:

A) Where all of the following recitations, e.g. the explicit/implicitly recited steps and the explicitly recited terminology, finds support in the original disclosure within the context of claim 280 [see section “280)” of this paragraph] from which the present claim now depends:

the step of detecting an identifier in said plurality of signals.

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283) With respect to claim 283, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 282 [see section “282)” of this paragraph] from which the present claim now depends:

the step of comparing said identifier to information contained in said schedule.

284) With respect to claim 284, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 98 [see section “98)” of this paragraph] from which the present claim now depends:

the step of including an instruct-to-coordinate signal in said plurality of signals.

285) With respect to claim 285, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure

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within the context of claim 284 [see section “284)” of this paragraph] from which the present claim now depends:

said instruct-to-coordinate signal includes an identifier.

286) With respect to claim 286, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 98 [see section “98)” of this paragraph] from which the present claim now depends:

the step reordering two of said plurality of signals.

287) With respect to claim 287, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 103 [see section “103)” of this paragraph] from which the present claim now depends:

said timing instruction causes said transmitter station to transmit one of said plurality of signals immediately.

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288) With respect to claim 288, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 103 [see section “103)” of this paragraph] from which the present claim now depends:

said timing instruction causes said transmitter station to delay transmission of one of said plurality of signals.

289) With respect to claim 289, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 103 [see section “103)” of this paragraph] from which the present claim now depends:

the step comparing information contained in said plurality of signals to a portion of said timing instruction.

290) With respect to claim 290, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure

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within the context of claim 289 [see section “289)” of this paragraph] from which the present claim now depends:

wherein said information contained in said plurality of signals includes a first identifier and said portion of said timing instruction includes a second identifier.

291) With respect to claim 291, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 103 [see section “103)” of this paragraph] from which the present claim now depends:

said multimedia presentation includes programming communicated in a first of said multimedia signals.

292) With respect to claim 292, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 291 [see section “291)” of this paragraph] from which the present claim now depends:

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comprising the step of generating a portion of said multimedia presentation in response to a second of said multimedia signals.

293) With respect to claim 293, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 103 [see section “103)” of this paragraph] from which the present claim now depends:

the step of communicating a request from said receiver station for information needed at said receiver station to output a portion of said multimedia presentation.

294) With respect to claim 294, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 108 [see section “108)” of this paragraph] from which the present claim now depends:

the step of recognizing an order in which said plurality of signals are one of stored, communicated, and processed.

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295) With respect to claim 295, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 108 [see section “108)” of this paragraph] from which the present claim now depends:

the step organizing files containing said plurality of signals.

296) With respect to claim 296, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 108 [see section “108)” of this paragraph] from which the present claim now depends:

said processor is controlled on the basis of an identifier.

297) With respect to claim 297, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 296 [see section “296)” of this paragraph] from which the present claim now depends:

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the step of programming said processor to compare a portion of said plurality of signals to said identifier.

298) With respect to claim 298, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 296 [see section “296)” of this paragraph] from which the present claim now depends:

the step of comparing each of said plurality of signals to said identifier.

299) With respect to claim 299, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 296 [see section “296)” of this paragraph] from which the present claim now depends:

said plurality of signals includes said identifier.

300) With respect to claim 300, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure

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within the context of claim 108 [see section “108)” of this paragraph] from which the present claim now depends:

the step of determining one of a programming kind and subject matter contained in said plurality of signals.

301) With respect to claim 301, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 120 [see section “120)” of this paragraph] from which the present claim now depends:

a first of said plurality of receiver stations is caused to transit said portion of said information transmission based on said signal and a second of said plurality of receiver stations is caused to store portion of said information transmission based on said signal.

302) With respect to claim 302, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 120 [see section “120)” of this paragraph] from which the present claim now depends:

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said first of said plurality of receiver stations is caused to select one of a plurality of transmitters and communicate said portion of said information transmission to said selected one of said plurality of transmitters.

303) With respect to claim 303, it is not clear:

A) Where all of the following recitations, e.g. the explicitly/implicitly recited steps and the explicitly recited terminology, find support in the original disclosure within the context of claim 120 [see section “120)” of this paragraph] from which the present claim now depends:

one of said plurality of receiver stations is caused to receive said portion of said information transmission based on said signal.

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6. The pending claims, of the group of 2 to 303, that are directed to *digital* related processes and apparatus are rejected under 35 U.S.C. 112 first paragraph as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Specifically, the pending claims that are directed to *digital* related processes and apparatus are not found to be enabled given the level of skill of the ordinary artisan at the time the '87 C.I.P. disclosure was made as is evidenced via the following¹:

I. Applicants have now presented claims which are directed to the distribution of digital television signals, digital signals, and anything directed to derivatives of the term 'digital', as was allegedly described by applicants '87 C.I.P. disclosure. However, the following is noted:

As originally disclosed in the '87 C.I.P., it is apparent that applicants used the terminology "digital television signals" and "digital" to refer to television signals which represented conventional television programming and which comprised digitized audio and video signal components (see "Example #7" which begins of

¹ As per an earlier agreement, copies of the "prior art" referenced in this paragraph have not been provided with this Office action since such copies were previously provided in co-pending application S.N. 08/499,097

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page 288 of instant disclosure). However, in the '87 C.I.P. disclosure as originally filed, applicants clearly lacked any specific description as to how:

- a) the "digital television signals" of applicants' alleged invention(s) were to have been formatted for transmission over a television distribution system using the method(s) that are now recited in the pending claims; and
- b) as to how the transmission circuitry of applicants' alleged invention(s) was modified and/or configured for the purpose of handling "digital television signals" in the manner that is now recited in the pending claims.

Apparent justification for this lack of such descriptions appears to be based on:

- 1) the allegation made by applicants' original '87 C.I.P. disclosure that "digital television signals" and like terms of the type described therein, were well known in the art at the time of applicants' alleged invention (note lines 30-33 on page 288 of applicants' disclosure); and
- 2) on the apparent assumption that the "digital television signals" of applicants' disclosure could be handled/transmitted in a manner that was interchangeable with the handling and transmission, *inter alia*, of conventional analog television signals.² Hence, and on the basis of these

²For example, the original '87 C.I.P. disclosure described portions of applicants' alleged invention(s) as having operated to transmit digital television signals over a TV channel during a

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substantiated facts, Examiner legally concludes that such allegations and assumptions, made at the time of applicants' alleged invention, are false and erroneous.

The examiner emphasizes that he does not dispute the fact that broadcasting digitally formatted television signals was in fact well known to those skilled in the art at the time of applicants' alleged invention. Specifically, the examiner acknowledges that the transmission of digital television signals was known in the art when, under "rare" circumstances, a transmission channel of sufficient bandwidth was available. However, it is noted that the transmission of these conventional digital television signals was *not* interchangeable with the transmission of analog television signal as assumed by applicants' original '87 C.I.P. disclosure because of the extremely large bandwidth that was required to transmit conventional digital television signals; i.e. this was true even when the digital television signals had been *compressed* using state of the art bandwidth compression techniques [1] [2] [3].

first period of time and as having transmitted analog television signals over said same channel during a *subsequent period of time* (see lines 1-5 on page 302 of applicants' instant disclosure). However, no discussion as to any difference in the handling of the two different television signals by the alleged invention(s) was ever provided, suggested, or recognized by applicants' original '87 C.I.P. disclosure).

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Given the above, the examiner maintains that the description found in applicants' original '87 C.I.P. disclosure pertaining to the transmission of "digital television signals" using applicants' alleged invention(s) was insufficient to have enabled the pending claims using the terminology. Specifically and based on these substantiated facts, it is legally concluded that applicants' original '87 C.I.P. disclosure at least failed to disclose and describe the manner in which the recited "digital television signals" had to have been formatted and processed so as to have enabled them to have been handled in the manner that was originally described in the '87 C.I.P.; e.g. the manner that now seems to be claimed.

In view of the above, applicants are hereby requested to submit evidence (e.g. a US Patent or a printed publication) which support the allegations and assumptions on which applicants' original '87 C.I.P. disclosure was clearly based; i.e. references which show the means needed to format and transmit "digital television signals" in a manner required by applicants' disclosed/claimed invention(s) were in fact well known to those skilled in the art at the time of applicants' alleged invention.

II. The examiner notes that even those sections of applicants' original '87 C.I.P. disclosure which were directed to the transmission of, *inter alia*, "digital television signals", e.g. "Example #7" which begins on page 288 therein, provide few clues as to

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how the recited "digital television signals" and like terms were formatted, handled, and transmitted by applicants' alleged invention(s) in order to have enable them to have been processed in the manner that is now set forth in the pending claims. For example, the description of applicants' alleged invention(s) failed to explain:

- 1) how the "digital television signals", *inter alia*, of applicants' alleged invention(s) were formatted and/or compressed so as to have enabled them to have been handled, transmitted, and/or processed in the manner that is now recited in the pending claims;

- 2) how the "digital television signals", *inter alia*, of applicants' alleged invention(s) were formatted and/or compressed so that they could be transmitted over the same TV channel that was used to carry conventional analog TV broadcasts as originally disclosed (see lines 1-5 on page 302 of applicants' disclosure);

- 3) how the subscriber stations of applicants' alleged invention were modified in order to have handled/processed "digital television signals", *inter alia*, in the manner that is now claimed;

- 4) how the "SPAM" messages of subscriber stations were to have been embedded in the "digital television signals", how said "SPAM" messages were to have been carried by said digitally formatted television signals, and how said

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"SPAM" messages were to have been extracted from digitally formatted television signals;

5) how the bit-rate of the "SPAM" messages that were carried by said digital television signals was related to the bit-rate of the digital television signals into which they were embedded and how this bit rate related to the bit-rate of the "SPAM" signals that were carried in the analog television signals and how the disclosed/claimed system was configured to handle any such differences (e.g. while not addressed by applicants' original disclosure, it appears that the conventional differences between the bandwidth of digital television signals and analog television signals would translated into respective difference in the bit-rate of the "SPAM" messages that were embedded in respective ones of the two types of television signals).

III. On the basis of the substantiated facts set forth in parts "I" and "II" above, the Examiner legally concludes that the pending claims which are directed to the handling/transmission of "digital television signals" would have required *undue* experimentation by applicants' '87 C.I.P. disclosure because the allegations and assumptions, on which the disclosed handling and transmission of such digital television signals was based, were respectively false and erroneous. The examiner legally concludes

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that these pending claims represent an *invitation to experiment unduly*³ when read in the context of the state of the "digital television signal", *inter alia*, transmission art which actually existed at the time of applicants' alleged invention; i.e. the technology required to have handled/transmitted "digital television signals" in the manner that was disclosed, and thus in the manner that is apparently claimed, does not appear to have existed at the time of applicants' alleged invention.

THE REFERENCED PRIOR ART:

- [1] The publication "Digital Television Transmission With 34 Mbit/s" by Burkhardt et al. evidences a conventional transmission system in which a Television signal was broadcast in a digital format (see Figure 2). Even though the bandwidth of the digital television signal was compressed prior to transmission, said digital signal still required a 22 MHZ transmission channel (see the second paragraph under the heading "Bit-Rate Reduction" on page 244); i.e. wherein a bandwidth of 22 MHZ is almost 4X that of a standard 6 MHZ TV channel used for analog television signal transmission.
- [2] The US Patent No. 3,755,624 to Sekimoto evidences a conventional system in which a television signal was digitally formatted and bandwidth compressed prior to broadcast. The resulting bit-rate of this compressed digital television signal was 32 Mbit/s which required a bandwidth more than 3X that of said standard 6 MHZ Tv channel.
- [3] The US Patent No. 4,742,543 to Fredericksen illustrates a system in which a television signal was processed on the transmitter side of a broadcast system in a digital data format (see figure 1). However, prior to broadcast, Fredericksen converted the digital television signal back into an analog signal format (@33). Such D/A conversion was described as having been necessary because the standard analog TV channel that was used to transmit the television signal was *not* of sufficient bandwidth to carry the signal in it's digital format (note lines 18-23 of column 5). This provides further

³It is noted that because pending claims are not original, actually, **no experimentation is permitted** under Section 112's written description requirement.

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substantiated facts for why the conventional "digital television signals" could not have been handled in the manner described by applicants' as their alleged invention(s) without undue experimentation.

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7. Those of the pending claims of the group of 2 to 303, that are directed to *data* (and terms derived from data, i.e. *datum*, *indicia*, etc.) and related processes and apparatus, are rejected under 35 U.S.C. 112, first paragraph as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

- a) As originally described in the '87 C.I.P., applicants' written description described a method for formatting various types of digital control and display data segments called: "*SPAM Messages*". Once formatted, these *SPAM* messages were embedded in the "normal locations" of television and/or radio programming so as to have created a combined signal which was then transmitted through a 'conventional radio channel' or a 'conventional television channel'. In the case of television transmission, said "normal location" was described as 'the vertical blanking interval' of the video signal.
- b) As also originally described in the '87 C.I.P., applicants' disclosure contained broad statements which suggested that said *SPAM messages* could be embedded within the "normal locations" of other types of programming besides radio and television programming. Specifically, the '87 C.I.P. also disclosed that the *SPAM messages* could be embedded within the "normal locations" of "other media" such as broadcast "data" or print (see the last line on instant page 35; lines 17-20 on instant page 71 and lines 7-9 on instant page 72). **However**, these statements are found to contradict the alleged invention

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as described by the later described so called “*more precise*” description (see lines 17-20 on instant page 72).

In the alleged “*more precise*” description, applicants explicitly taught that it was the “other media” which is embedded within the “information portion” of said SPAM messages. Hence the contradiction:

- first applicants suggest that said SPAM messages are embedded within the “normal locations” of said “other media”; but later they teach
- that it actually is the other media that is embedded within the information portions of said SPAM messages!

The disclosure, by these substantiated facts, has caused examiner to legally conclude that the written description related to the term “**data**” and it’s derivatives is so contradictory to the point that it would have required *undue*⁴ experimentation in order for the ordinary artisan to practice the alleged invention.

For the record, the examiner points out that all specific/concrete examples of system(s) and method(s) which were specifically illustrated in applicants’ original disclosure were consistent only with applicant’s “more precise” teachings; i.e. said

⁴As explained above, Section 112’s written description requirement permits no experimentation even when less than undue when claims are not originally filed, as in the present case.

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teaching which indicated that the “data” was actually transmitted within the *SPAM* messages..

c) As is evidenced from parts “a)” and “b)” of this paragraph, applicants’ original ‘87 C.I.P. disclosure did describe system(s) which formatted, transmitted, received, processed, and/or displayed radio and television *program units* under control of, and/or along with, embedded “SPAM messages”. However, as evidenced in parts “a)” and “b)” of the above, applicants’ disclosure did not describe system(s) and method(s) which formatted, transmitted, received, processed, and/or *displayed “data” program units under control of, and/or along with, associated SPAM messages* because *data program units* (i.e. as the terminology “**data**”, *inter alia*, was coined and used within applicants’ written description) were actually transmitted within said SPAM messages. Specifically, the examiner maintains that said “*more precise*” teachings of applicants’ own disclosure evidenced that the handling of the radio and television programming *program units* by the disclosed system(s)/method(s) was different from, and was non-analogous⁵ with, the

⁵ The examiner notes that if the disclosed SPAM signals were simply embedded within the digital data stream(s) of *other media*, as they were embedded within the television and radio programming, the ability of the disclosed “processors” to detect and synchronize themselves to the *SPAM signals* would be destroyed because the “cadence” used and required by the disclosed processors for synchronization purposes would no longer have existed; e.g. the start of a new *SPAM message* would *not* always have followed an “end-of-field” (EOF) signal as was required by processors in all of the embodiments of applicants’ disclosure. However, it is noted that such a synchronization problem was clearly avoided when the other media was carried within the

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disclosed handling of *data* by the disclosed system(s)/method(s). More Specifically, said *more precise* teachings of applicants' original disclosure evidence the fact that only TV and radio programming was carried in the form of said described *program units*, while said "data" was carried as information packets located within said SPAM messages themselves (see part "b)" of this paragraph).

d) Given the substantiated facts set forth in "a)", "b)", and "c)" above, the examiner legally concludes that the recitations of pending claims using the term and it's derivatives would have required *undue* experimentation by applicants' '87 C.I.P. Specifically, the examiner finds the facts that applicants' disclosure at least failed to set forth the means and/or steps needed to make and use system(s)/method(s) in which recited "**data**", *inter alia*, were formatted, transmitted, received, processed, and/or displayed in the manner which was explicitly disclosed/exemplified for television and radio *program units*. Specifically, in applicants' written description, the disclosed system(s) and method(s) for formatting, transmitting, received, processing, and/or displaying said television and radio *program units* were incompatible with system(s) and method(s) which would have been needed to format, transmit, receive, process, and/or display *program units* comprised of "**data**". Moreover, it is maintained that "**data**" (as coined and used within applicants'

SPAM messages as appears to have actually been taught by the *more precise* teachings of applicants' disclosure (again, see lines 17-20 on page 72).

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written description) could not be processed in the same manner that was described for television and radio programming program units as now appears to be claimed in the above enumerated pending claims.

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7. Claims 2 to 303 are rejected under 35 U.S.C. 112, first paragraph, because the **best mode** contemplated by the inventor has not been disclosed. Evidence of concealment of the best mode is based upon: the *nesting* of detectors, signal processors, monitors, decryptors, decoders, buffers, controllers, computers, micro-computers; and for the apparent nesting of ‘programming in data’, and of ‘data in programming’, ‘data being programming’, and ‘data not being programming’, etc...(i.e. what is “programming” and what is not “programming” cannot be determined and/or is simply not understood).

The ‘87 disclosure is mis-leading and confusing. The ordinary artisan would *not* have understood from the ‘87 disclosure **alone** that what is now being claimed, via the newly presented pending claims, was applicants best mode. It is concluded that the use of the omitted ‘81 disclosure to understand the instant disclosure is impermissible in that it would, if allowed, circumvent the requirements of Section 112; i.e. the ‘81 disclosure was not incorporated by reference into the ‘87 disclosure and thus cannot be presumed to be part of the ‘87 disclosure. Absent specific reference to the teachings of the ‘81 disclosure, it is believed that the ordinary artisan of ‘87 would not have understood that what is now being claimed was in fact the “best mode”. Moreover, the circular description for what is “data”, “programming”, for what “programming unit”, “signal word”, “data unit” would also have caused the ordinary artisan so much trouble that the best mode would not have been recognized when considering the ‘87 disclosure *alone*.

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Notwithstanding, the description at pages 14-15 is so confusing as to what shall be the best mode for the pages 14-15 terms including, *inter alia*, **signal word**, signal unit (reference discussion under objection to the specification above), *etc*, that the best mode cannot be discerned for which shall be used.

Even when the '81 disclosure is considered, what applicant now deems to have been their "best mode" appears to have drastically changed. For example, in '81 applicants describe their preferred mode to preclude headers, however, the embodiments described in the '87 spec appear to use nothing but **headers** for the SPAM messages as has been discussed above. The '87 disclosure also describes applicants' preferred mode to preclude headers even though, as pointed out above, all of the embodiments described in the '87 spec appear to use nothing but **headers** for said SPAM messages. Thus, the best mode for applicants' data appears to have been concealed because they described the preferred mode as 'not using headers' yet the detailed description appears to describe systems which use nothing but headers; i.e. applicant has never revealed/disclosed what was needed/required to have accomplished this described preferred mode.

The instant case is like In re Ruschig, 379 F.2d 990, 154 U.S.P.Q. 118 (C.C.P.A. 1967) where the judge's analysis is found to be appropriate to applicants' claims.

It is an old custom in the woods to mark trails by making blaze marks on trees. It is no help in finding a trail or in finding one's way through the woods where the trails have disappeared-or have not yet been made, **which is more like the case here-**
to be confronted simply by a large number of unmarked trees. Appellants are pointing to trees. **We are looking for blaze marks which single out particular**

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trees. We see none...Working backward from a knowledge of chlorpropamide, that is by hindsight, it is all very clear what route one would travel through the forest of the specification to arrive at it. **But looking at the problem, as we must, from the standpoint of one with no foreknowledge** of the specific compound, it is our considered opinion that the board was correct in saying: "Not having been specifically named or mentioned in any manner, one is left to selection from the myriads of possibilities encompassed by the broad disclosure, with no guide indicating or directing that this particular selection should be made rather than any of the many other which could also be made". (emphasis added).

Ruschig, 154 U.S.P.Q. at 122-123.

The '87 disclosure is analogous to the Ruschig woods. The Section 112 responses are pointing to applicants' woods in an analogous way that Ruschig appellants were "pointing to trees". Working backward from a knowledge later provided in Section 112 responses, there are some instances where limited support *might* exist. However, looking forward at the problem as the examiner *must* from the standpoint of no "foreknowledge", and hence without the Section 112 responses, the examiner cannot find the processes in the manner as they are now claimed.

Applicants' disclosure addresses a variety of claim limitations with varying degrees of specificity, and apparently describes contradictory processes and describes terms with contradictory description. The instant disclosure often reads. 'it might be this; but, 'it might be that'; but 'it might be neither'. It appears that what 'blazes' are available for approaching the problem without the benefit of later provided blaze marks, i.e., applicants' Section 112 responses, appear to lead the ordinary artisan right off the trail and into a thicket of bushes. Therefore, examiner recognizes insufficient blaze marks to motivate the assembly of pending claim limitations as they are now claimed.

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Notwithstanding, the scattering of teachings across multiple applications in the chain of continuity, under the facts of the instant application, constitute either (1) an affirmative concealment of the best mode of carrying out applicants invention (Randomex, Inc. v. Scopus Corp., 849, F.2d 585, 7 U.S.P.Q. 1050 (Fed. Cir.. 1988)), or (2) a total failure to be in possession at the time of filing of what is now claimed. Examiner finds (2) to *at least* be the instant case as explained above. However, *assuming arguendo* (2) is not the instant case, the following facts are substantiated for (1).

Considering pending claims of the group 2 to 303, *assuming arguendo*, that pending claims are supported 'through' the '87 disclosure so as to benefit from the '81 filing date even though applicants apparently have mistaken the '81 disclosure for the '87 disclosure. Moreover, *assuming arguendo*, that examiner has not mis-understood *the alleged pending claim support*, then the *alleged pending claim support* appears to have been hidden for reasons; *inter alia*, described above.

The very fact that applicants keep pointing to the parent '490 disclosure for demonstrating support to the instant disclosure in response to Section 112 rejections to the instant disclosure, is itself evidence of concealment.

Examiner does not find sufficient blaze marks in the woods, *he is lost*.

The *alleged pending claim support* tables are considered little to nothing more than attempts by to later provide what is *missing* from the '87 disclosure, even though it *might* have been present in '81.

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However, examiner is prohibited, under Section 112's written description requirement, to use '81 for understanding '87, else Section 112 gets circumvented.

However, *assuming arguendo*, that the terms including, *inter alia*, 'data', 'digital', etc. can somehow meet (2)⁶, questions are raised as to whether applicants disclosed their best mode. The meanings and concepts of the terms 'data', 'digital', 'programming', etc., appear to have been hidden. In any event, the terms clearly evolved, often ambiguously, so they would not be recognized to convey the same concept in '87 as they *might* have in '81.

In summary under best mode, few to no blaze marks were provided for adequately marking the path in '87, per Ruschig.

The pending claims of the group 2 to 303, which use terms having different descriptions/meanings with respect to the '81 and '87 disclosures, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

Considering claims of the group 2 to 303 using terms having different descriptions, from '87 and '81. For example, when the '87 description is different so as to contradict the '81, it appears that the claim gets benefit only with respect to '87 and the claim is constructed under the

⁶Specifically, possession, Section 112's written description requirement.

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broadest reasonable interpretation standard with respect to '87 **only**. Likewise, when a term is elaborated upon and the claim modifies the term with '87 description, the term gets an '87 effective filing date.

However, it appears the Federal Circuit constructed the term 'information of a selected program unit' in claim 35 of '277, with respect to both descriptions in the '87 and the '81 specifications. See Personalized Media Communications, L.L.C. v. International Trade Commission et al, Appeal No. 97-1532 (decided January 7, 1999). While this might be appropriate when *already* a patent, and when Section 112 first paragraph was *not* in judicial review, the examiner maintains it is inappropriate *before* a patent in view of the *preponderance of the evidence test for patentability* under both the vague and indefinite prohibition of Section 112 second paragraph, and also Section 112 first paragraph. Hence, terms having different definitions from '87 to '81 are considered vague and indefinite, including the terms, *inter alia*, 'information', 'instruction', 'programming', 'program', 'data', 'digital', and derivatives of each term, etc. Applicants are respectfully requested to remove all claim terms from pending claims when their conceptual meanings are not identical for benefiting from '81 priority.

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8. Pending claims of the group 2 to 303 using the terms, *inter alia*, 'program' and 'programming' derivatives thereof, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regards as the invention.

The examiner notes that the original '87 C.I.P. disclosure of the present application defines the terminology "programming" differently than the '81 disclosure. Specifically:

a) The Original disclosure of the present application explicitly defined the term "programming" to mean: "everything that is transmitted electronically to entertain, instruct, or inform including television, radio, broadcast print, and computer programming as well as combined medium programming" (see lines 5-8 on page 11 of the present written description); while in contrast

b) The '81 disclosure explicitly defined the same terminology to mean: "everything transmitted over television or radio intended for communication of entertainment or to instruct or inform" (see lines 4-7 in the abstract of US patent 4,694,490).

I. With respect to the terms "program" and "programming" as recited in the pending claims:

A) As it relates to the broadcast and transmission art, the term "*program*" is defined by the Second College Edition of the 'American Heritage Dictionary' to mean: "a scheduled radio or television show". This conventional definition of the term "program" seems to be consistent with applicants' use of the terminology

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throughout the '81 disclosure. However, this conventional definition is clearly inconsistent with the definition given to the term "programming" via the original disclosure of the present application (see the preceding paragraph of this Office action).

B) While applicants may be their or her own lexicographer, a term in a claim may not be given a meaning is, *inter alia*, repugnant to the usual meaning of that term, In re Hill, 161 F.2d, 367,73. U.S.P.Q. 482 (C.C.P.A. 1947). The examiner maintains that the use of the terminology "programming" and "program" in pending claims (enumerated above) is repugnant to what was the normal/usual use of the terminology. Appropriate correction is required.

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Claim Rejections - 35 U.S.C. § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

10. Claims 2 to 303 are rejected under 35 U.S.C. 102(a,b,e) as being clearly anticipated by patents '490 and '725.

Applicants have alleged that claims 2-303 are fully supported by the '81 disclosure. Examiner incorporates by reference, into this rejection, all previous responses to Section 112 rejections, noting that applicants have apparently mistaken the '81 disclosure for the instant disclosure.

Note again:

A) Although applicants, in fact, omitted most sentences, paragraphs, and figures, of the parent '490 disclosure when making the later 9/11/87 (co-pending parent

08/113,329)('329) disclosure (i.e. corresponding to the instant disclosure), they allege to have incorporated-by-reference the documents, paper 21 of '329, *inter alia*, into page 1

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of the 9/11/87, disclosure when making the instant disclosure on ~6/95 (see respective preliminary amendments accompanying Section 120 filings of co-pending applications). Section 120, however, does not permit the apparent hiatus of subject matter from 9/11/87 to '95 (i.e. the instant filing date) for the priority benefit under Section 120 to the 11/3/81 disclosure. Hence, while the added subject matter is not impermissible new matter, it is anticipated by the '490 and '725 patents since, at best, it only gets the '95 effective filing date.

11. Claims 2-303 are rejected under 35 U.S.C. 102(b) as being anticipated by “The Weather STAR” (Satellite Transponder Addressable Receiver) device/receiver. The following is noted:

1) The “The Weather STAR” installation/operation manual, already of record, evidences the fact that “The Weather STAR” device/receiver was in use, and thus was well known in the art, as of 1/5/82. In view that the section 112-1 problems cited above indicate that the pending claims are (at best) only entitled to the 1987 filing date, the “The Weather STAR” device/receiver qualifies as 102(b) prior art against said pending claims.

2) Because of the extensive section 112-1 and 112-2 problems noted above, it is difficult/impossible for the examiner to specifically address how each of the pending claims' limitations are anticipated by “The Weather STAR” device/receiver. However,

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the current record shows that applicant themselves are quite familiar with the “The Weather STAR” device/receiver in that they appear to have alleged that the “The Weather STAR” device/receiver infringed claims of similar scope in one or more of the parent applications. Thus, for the purpose of this Office action, the examiner will rely on applicants’ own knowledge and expertise in determining exactly how the pending claims are met by the “The Weather STAR” device/receiver. Being such, should applicants refute the examiner’s position, then they should explain what they believe to be the recited patentable differences.

12. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Flynn [U.S. Patent #3,761,888].

I. The showing of Flynn:

As is evidenced in its title, the U.S. Patent to Flynn was directed to a “broadcast station logger and printout system” which operated: 1) to monitor the operation of the broadcast station to which it was connected; and 2) to generate a printed log (i.e. figure 9) which listed, in the order of transmission, all of the programming which was broadcasted from the monitored station. The following is noted:

A) The broadcast station, to which the Flynn “logger and printout system” was connected, comprised an *automated broadcast station* that included an

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“automatic sequencer” (i.e. 14 of figure 1) wherein the *“automatic sequencer”* operated: 1) to automatically turn on and off various sources of programming according to a preset sequence of programming events; 2) to appropriately switch the programming provided from the various sources for output to a transmitter (i.e. 10 of figure 1); and 3) to interrupt the preset sequence of programming at scheduled times, as determined by a real-time clock, for the broadcast of other programming such as network programming, station breaks, time signals, weather summaries, etc,... [note: lines 1-12 of column 2; and lines 1-20 of column 5]. As is explicitly acknowledged within the Flynn itself, *automated broadcast stations* and *automatic sequencers* were notoriously well known in the art and thus were only cursively described in the Flynn patent; i.e. the details of these structures were not novel and were not significant to the Flynn invention of or before 1972 [note: lines 12-15 of column 2; and lines 63-67 of column 4].

II. Flynn as applied to claim 2:

A) The recited step of “inputting a signal” is met by the showing of Flynn in that: 1) a signal is inputted to sequencer 14 from signal source 24; 2) a signal is inputted to sequencer 14 from signal source 34; or 3) a signal is inputted to sequencer 14 from a network source via inputs 15;

B) The recited step of “inputting a transmission schedule associated with said signal” is met by the showing of Flynn in that the “programmed sequencer

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controller” 14 is programmed with entered/inputted sequence and time information which determines the “time” (i.e. how and when) at which any one of “the inputted signals” (i.e. from 24 or 34 or 16) are transmitted; i.e. by definition, such entered sequence and time information constitutes a “transmission schedule”;

C) The recited step of “transmitting said signal” is met by the showing of Flynn in that the inputted signals (i.e. from 24 or 34 or 16) are transmitted by transmitter 10 according to the “transmission schedule” (i.e. according to entered sequence and time information);

D) The recited step of “selecting one of said code or and identifier associated with said signal” is met by the showing of Flynn in that the system disclosed by Flynn selects program identifiers (i.e. tags), associated with the signals, for use in logging the transmitted signals [i.e. note lines 5-19 of column 3 and figure 9];

E) The recited step of logging is met by the operation of logger element 50.

13. Claim 3 is rejected under 35 U.S.C. 102(b) as being anticipated by the article “Videocassette Banks Automate Delayed Satellite Programming” by Chiddix.

I. Preface:

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The examiner maintains that the functional recitations of lines 6-9 are met if it can be shown that each of a plurality of receiver stations is “effectively controlled” by a “control signal”: 1) to transmit said information transmission; and 2) to identify and process said information transmission (i.e. “at least a portion of the information transmission” inherently includes identifying and processing the entire information transmission). More specifically, the examiner maintains that the claim, as currently drafted, does not actually require the “first” station to operate differently from the “second” station; i.e. the claim limitation if both station provide both functions.

I. The showing of Chiddix:

Chiddix evidences the fact that it was notoriously well known in the art, at the time of applicant’s alleged invention, to have used a satellite link as the medium for distributing TV programming from some central/network broadcast station/location to a plurality of regional/affiliate broadcast stations/locations which were dispersed over a plurality of different time zones. Chiddix evidences the fact that such satellite distribution systems had to deal with the very real *problem*⁷ of having the distributed television programming

⁷ The examiner notes that this problem was created by the fact that satellite transponder time was/is very expensive and thus distribution systems were/are often limited to the use of only one transponder. Rebroadcasting the same TV program over the one transponder at different times, i.e. to compensate for time zone differences and/or other program timing errors, was recognized in Chiddix as having been a wasteful and inefficient use of transponder time.

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arrive at all of the regional/affiliate stations simultaneously [see the first paragraph of the article]. To overcome this problem, Chiddix disclosed a programmable automated delay device comprised of a predetermined number of relatively inexpensive VCRs [see figure 1]. As taught by Chiddix, this programmable delay device allowed the operator at each regional/affiliate broadcast station/location to time shift the simultaneously received TV programming so that it could be rebroadcast from the regional/affiliate station locations at a subsequent time appropriate for each regional/affiliate station location. In addition to compensating for time zone differences, the disclosed delay device allowed the operator to shift the programming so as to tailor the timing of the rebroadcast to fit their own needs [see line 7-11 in the third column on the second page of the article].

Chiddix further evidences the fact that it was notoriously well known in said satellite distribution art, at the time of applicant's alleged invention, for the satellite to have simultaneously carried/distributed cuing signals associated with the distributed TV programming for the purpose of controlling the insertion of local commercials into the distributed programming [note the first full paragraph on the second page of the article]. In such cases, Chiddix evidenced the need to delay/record the associated cuing signals too [note the first full paragraph on the second page of the article]. With respect to the Chiddix disclosure, the examiner notes the following:

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a) While not explicitly stated in Chiddix, the examiner maintains that each TV program that was transmitted from the central/network location must have been be “received” from some type of program source before it could be transmitted;

b) While not explicitly stated in Chiddix, the examiner maintains that each cuing signal that was transmitted from the central/network location must have been “received” from some type of cuing signal source before it could be transmitted;

c) The examiner maintains that each TV program that was transmitted from the central/network station/location was inherently transmitted at a “selected time” which was designated by a TV transmission schedule in view that the term program, by definition, means “a scheduled radio or television show”;

d) The examiner maintains that the satellite in Chiddix inherently communicates each television program and its associated cuing signals to the delay device located at each receiving station wherein both of the communicated signals are stored; and

e) By controlling each receiver station to insert commercials into the TV program, it is maintains that the cuing signals in Chiddix effectively controls each station to transmit the TV program and to identify and process those portions of the TV program into which the commercials were to be inserted.

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14. Claim 8 is rejected under 35 U.S.C. 102(b) as being anticipated by the article “Videocassette Banks Automate Delayed Satellite Programming” by Chiddix for the same reasons that were set forth for claim 3 above. The following is noted:

1) The examiner maintains that the cuing signal in Chiddix inherently carries cuing information which has been “encoded” to form/create said signal.

15. Claim 25 is rejected under 35 U.S.C. 102(b) as being anticipated by Kamishima et al. [JP 56-51161].

I. The showing of Kamishima et al.:

As is shown in figure 1, Kamishima et al. disclosed a switching system which comprised conventional Automatic Program Emitter (APE) which, as acknowledged by Kamishima et al., had been widely used in the TV broadcast art for the automatic switching and emitting of programs [see lines 13-15 on page 3 of the translation]. While not described in detail within Kamishima et al., the examiner takes Official Notice that it was notoriously well known in the art that these conventional Automatic Program Emitters comprised some sort of means for storing an entered “TV Program Broadcast Schedule” whereby the Emitters: 1) turned designated TV sources on and off at scheduled program event times so as to provide TV programming from the sources to a matrix switching circuit at their scheduled times of broadcast; and 2) controlled said matrix

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switching circuit, by outputting appropriate switching control signals derived in accordance with the stored broadcast schedule, so as to connect the proper ones of the provided TV programs to the transmitter of the broadcast station at their scheduled broadcast times of broadcast. The actual invention that is disclosed by Kamishima et al. pertains to additional structures which are to be provided within such an automated broadcast station which enable the automated station to determine whether or not the matrix switching circuit has functioned according to the scheduled commands provided from the emitter; i.e. according to the program broadcast. More specifically, as is shown in figure 1, Kamishima et al. provides: 1) circuitry (1) located on the input side of the switching matrix (4), for inserting identification codes into the vertical blanking interval of each provided video signal such that the identification codes identify each video signal by input/source; 2) circuitry (6), located on the output side of the switching matrix (4), for comparing the scheduled switching commands (@62) provided from the program emitter (5) with the identification code that is extracted from the outputted video so as to determine if the scheduled video signal was properly outputted from the switching matrix at its scheduled broadcast time.

II. Kamishima et al. Applied against claim 1:

Given the discussion set forth above, the following is noted:

- A) The “inputting of a signal” is performed by each of the video program sources in the system disclosed by Kamishima et al. ;

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B) The “inputting of a transmission schedule” is performed by the means inherently used to program the Automatic Program Emitter with the required broadcast transmission schedule;

C) The “transmitting of said signal” is performed by the automated broadcast station that is described by Kamishima et al.;

D) The “selecting” of at least a portion of information communicated to the transmitter is performed by circuitry (6) in Kamishima et al. which operates to extract the identification code portion of the video signal that is communicated to the transmitter of the broadcast station;

E) The “comparing” of the selected portion to information of the broadcast schedule is performed by circuitry (6) in Kamishima et al. which compares the extracted identification code portion to the scheduled switching command (62) that has been issued by the program emitter (5).

16. Claim 26 is rejected under 35 U.S.C. 102(b) as being anticipated by Kamishima et al. [JP 56-51161] for the same reasons that were set forth for claim 25 above.

17. Claim 31 is rejected under 35 U.S.C. 102(b) as being anticipated by Kamishima et al. [JP 56-51161] for the same reasons that were set forth for claim 25 above. The examiner notes the following:

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1) As applied against claim 31, it is noted that element 4 in Kamishima et al. comprises a “switching station/location” which operates selectively “transmit” video signals inputted at its inputs, through a transmission line, to a “receiver station/location” comprised of circuitry (6).

18. Claim 64 is rejected under 35 U.S.C. 102(b) as being anticipated by Corey [US Patent #4,199,791].

As is shown in figure 1, Corey discloses an automatic recording system for a radio broadcast station which comprises:

A) a signal processor (26) which includes an input terminal for “inputting a signal” into the automatic recording system wherein said inputted signal (see figure 2) at least includes specific audio programming (18) and an embedded identifier (21);

B) means for recording and for “delaying a communication of the received signal” when the originally received version has not been properly processed;

C) a switch (34) and a processor (28 and 29) wherein the switch is controlled according to timing instructions provided by the processor.

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V. Claim Rejections - 35 U.S.C. § 103(in detail):

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

20. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over the publication “Automatic Storage and Retrieval of Videotaped Programs” by Kazama et al..

I. The showing of Kazama et al:

Kazama et al. describes a TV broadcast station which includes a computerized system for the storage and retrieval of videotaped TV programs. The broadcast station comprises:

A) means for “inputting signals” representing TV programming into the broadcast station whereby the inputted TV signals are recorded onto video

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cassettes [i.e. via the recording VTR machines described in the last four lines in the first column of page 222];

B) means for “inputting transmission schedule information” into the broadcast station wherein the inputted schedule information includes a transmission schedule, TV tape/signal identification numbers, output network destination codes, and other necessary data [see: the last seven lines in the second column of page 221; and the first 9 lines under the heading “Operation of the System” on page 223]; and

C) means for transmitting the identified TV signals via identified ones of the output networks at identified times in response to the inputted transmission schedule information.

The examiner notes that while line 9 of claim 2 recites a step of “selecting one of said code and an identifier associated with said signal”, the claim fails to relate this recited step to any of the other steps which are recited in the claims; i.e. the claim does not specify how the selection occurs, why the selection occurs, or for what the selection is used. Being such, the examiner notes that such a selection step is inherently met by many processes which must occur in the broadcast station including, but not limited to the formulation of the transmission schedule in which the tape/program identification numbers of the tapes/programming to be broadcasted is selected to control the broadcasting operation of the station.

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II. Differences:

Claim 2 differs from the showing of Kazama et al. only in that Kazama et al. does not explicitly describe means for logging the *transmission*⁸ (i.e. the broadcast) of the TV signals by the broadcast station.

III Obviousness:

For a variety of notoriously well known reasons, the need/desire to have monitored and logged the TV programming being broadcasted from conventional TV broadcast stations was notoriously well known in the art. The examiner maintains that it would have at least been obvious, if not inherent, for the broadcast station described in Kazama et al. To have comprised means for monitoring and logging the programming being broadcasted.

21. Claims 225-227 are rejected under 35 U.S.C. 103(a) as being unpatentable over the publication "Automatic Storage and Retrieval of Videotaped Programs" by Kazama et al. For the same reasons that were set forth for claim 2 above.

⁸ For the purpose of this rejection, it has been assumed here that applicant has used "transmission" in line 10 of claim 2 to mean "broadcast". However, if given a broader reading, it is noted that Kazama et al. does in fact explicitly describe means for logging a "transmission" of the TV signal in that it monitors how and where the TV programs are "transmitted"/sent between locations within the broadcast station [see the first full paragraph in the second column on page 222].

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22. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over the article “Videocassette Banks Automate Delayed Satellite Programming” by Chiddix in view of Germany [GB 959,274].

I. Preface:

The examiner note that while it is not required [see the rejection of claim 3 over Chiddix under section 102 as was set forth above], for the purpose of this rejection the examiner has assume that the “first” and “second” receiver stations function differently.

II. The showing of Chiddix:

A) See the rejection of claim 3 over Chiddix under section 102 as was set forth above.

B) The examiner notes that each regional/affiliate broadcast station/location in Chiddix corresponds to the recited “first” receiver which is controlled by the control signal to transmit the TV programming.

III. Differences:

Claim 3 differs from the showing of Chiddix only in that Chiddix does not show the recited “second” station which, as assumes herein, operates differently from the first station: i.e. namely to identify and process at least a portion of the TV programming.

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IV. The showing of Germany:

Germany has been cited because it exemplified a television system for generating, encoding, transmitting, receiving, and decoding cuing information [note figures 1 and 2]. Significantly, Germany taught that the transmitted cuing information could be used to control the use of TV programming at the “ultimate TV receiver/locations” service by the regional/local broadcast stations [see lines 44-53 on page 2] in addition to controlling the insertion of commercials at the “intermediate” regional/local broadcast stations [note lines 8-43 of page 1]. These “ultimate TV receiver/locations” correspond to the recited “second” station of the claim.

V. Obviousness:

In view of the showing of Germany, the examiner maintains that it would have been obvious to have modified the system disclosed by Chiddix so as to have used the cuing signals described in Chiddix to have carried additional control information which enabled the broadcast system to have control over the way its programming was used by the “ultimate TV receiver/locations”.

23. Claims 4-7, 27-30, 32-35, 37-40, 42-45, 47-63, and 66-68 are rejected under 35

U.S.C. 103(a) as being unpatentable over the article “Videocassette Banks Automate Delayed

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Satellite Programming” by Chiddix in view of Germany [GB 959,274] for the same reasons that were set forth for claim 3 above.

24. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the article “Videocassette Banks Automate Delayed Satellite Programming” by Chiddix in view of Germany [GB 959,274] for the same reasons that were set forth for claim 3 above. The examiner notes the following:

1) The examiner maintains that the cuing signal in Chiddix inherently carries cuing information which has been “encoded” to form/create said signal. Such a required “encoding” process is evident/exemplified via the structure shown in figure 2 of Germany; i.e. cuing information is received via the control/closing of switched 13 and said cuing information is “encoded” into a cuing signal via elements 10, 11, and 12.

25. Claims 9-12, 69, 71-74, 76-79, 81-84, 86, 89-92, 94-97, 99-102, 104-107, 109-114 are is rejected under 35 U.S.C. 103(a) as being unpatentable over the article “Videocassette Banks Automate Delayed Satellite Programming” by Chiddix in view of Germany [GB 959,274] for the same reasons that were set forth for claim 8 above.

26. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Keiser [U.S. Patent #4,390,901] in view Vikene [WO 80/02093].

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I. Preface:

First, the examiner maintains that the recitations of claim 3 are confusing for reasons which were addressed under section 112-2 above. Secondly, the examiner notes that the recitations of claim 3 provide a list steps yet, in most instances, fails to provide positive recitations which relate ones of the recited steps to other ones of the recited steps; i.e. thereby failing to clearly and/or explicit indicate the order in which the listed steps are to be executed by the recited method. Further, the examiner points out that the recitations of claim 3 are inclusive of alternative implementations [note lines 10-12]. Given these three issues, the examiner maintains that the recitations of claim 3 can be broadly and fairly interpreted as having comprised, or at least encompassed, the following meaning/scope:

A method of processing signals to control a plurality of receiver stations, each receiver station having a processor, said method comprising the steps of:

- 1) receiving an information transmission (i.e. at a transmitter station);*
- 2) receiving control signals (i.e. at said transmitter station);*
- 3) selecting a time at which to communicate said received control signals (i.e. from the transmitter station);*
- 4) communicating said received information transmission (i.e. from the transmitter station) to a recording device (i.e. which recording device is located at a "second" one of the receiver stations);*

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5) storing the communicated information transmission at said storage device (at the "second" one of the receiver stations);

6) communicating said received control signal at said selected time (i.e. from said transmitter station and with the communicated information transmission);

7) storing said communicated control signal at said storage device along with said communicated information transmission (i.e. at said "second" receiver station); and

8) wherein said received control signal (i.e. the control signal which is received at said transmitter station) is effective to control a first of the plurality of receiver stations to transmit the communicated information transmission and is effective to control said "second" of the plurality of receiver stations (i.e. said one receiver station which contains the recording device) to identify and process at least a portion of said information transmission.

II. The showing of Keiser [US Patent #4,390,901]:

Keiser discloses a broadcast system for processing signals wherein the broadcast system comprises: 1) a transmitter station which has the configuration that is shown in figure 1; and 2) a plurality of receiver stations, which are serviced by the transmitter of

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figure 1, each of which comprises the processing circuitry figure 2. The broadcast system by disclosed Keiser comprised:

A) means for “receiving an information transmission” [i.e. video mixer 8 of figure 1 which received information transmitted from the video source 6];

B) means for “communicating said information transmission to a storage device”[i.e. note that elements 8, 14, 16, 18, 42, 44, 46, and 48 of figures 1 and 2 communicate the received information transmission to a video storage/recording device located at least a “second” one of the plurality of receiver station];

C) means for receiving a “control signal” comprised of an information code [i.e. encoder 20 which receives the information code for each program from an information code source as is described in lines 16-20 of column 3];

D) means for selecting “a time” at which to communicate said control signal [i.e. elements 10, 12, 20, 24, and 22 of figure 1 inherently output the information code of a TV program at a “time” which must be selected so as to corresponds to the scheduled time interval over which the TV program⁹, to which the information code belongs, is broadcasted (note lines 32-34 of column 3)];

E) means for communicating the control signal based one the selected time [i.e. note that elements 8, 14, 16, 18, 42, 44, 46, and 48 of figures 1 and 2

⁹ The examiner notes that the term *program*, by definition, means: “a scheduled radio or TV show”.

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communicate the received control signal, along with the information transmission, to the video storage/recording device located at least a “second” one of the plurality of receiver station]; and

F) wherein said received control signal (i.e. the control signal that is provided to encoder 20 at said transmitter station) is effective to control a first of the plurality of receiver stations to transmit the communicated information transmission (i.e. any one of the plurality of receiver stations “*transmits*”¹⁰ the communicated information signals to a display or recording device) and is effective to control said “second” of the plurality of receiver stations (i.e. said “second” receiver station which contains the recited recording device as was described above) to identify and process at least a portion of said information transmission.

III. Differences:

Claim 3 differs from the showing of Keiser only in that claim 3 requires the control signal to be recorded with the information transmission via the storage device; i.e. Keiser does not state whether or not the video recording device records the control signal too.

¹⁰ The examiner notes that, by definition, the term *transmits* means: 1) to send from one place to another”; and “to send a signal by wire or radio”.

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IV Obviousness:

The examiner takes Official notice that it was notoriously well known in the art for video recorder to have been implemented so as to have recorded any information which was contained within the vertical blanking interval of a TV signal which was being recorded [i.e. as in the case of the “control signal” which was described by Keiser]. Implementing the recording device in Keiser with such conventional video recording structure is maintained to have represented nothing more than an obvious choice of design [i.e. as currently drafted, claim 3 fails to include any limitation as to how, or even if, the **stored/recorded** control signals are ever used in the recited method].

Alternatively, it is noted that Vikene provides specific motivation for recording the control signals on the storage/recording device along with the information transmission. More specifically, Vikene taught that one could use such recorded control signals during the reproduction mode so as to automate the process searching for the beginning/end of recorded programs [see lines 16-22 on page 2]. Given this teaching, the examiner maintains that it would have been obvious to have modified Keiser to have includes the automated search feature of Vikene.

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27. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keiser [U.S. Patent #4,390,901] in view Vikene [WO 80/02093] for the same reasons which were set forth for claim 3 above. The following is noted:

1) With respect to claim 4, it is noted that the control signal is encoded within the information transmission [see 57-60 of column 4].

2) With respect to claim 5, it is noted: 1) that the control signal in the modified system of Keiser is in fact recorded within the vertical blanking interval of the recorded information transmission [see 57-60 in column 4 of Keiser]; and 2) that Keiser disclosed the control signal as comprising one or more of the information types listed in lines 21-31 of column 3.

28. Claims 6,7, 27-30, 32-35, 37-40, 42-45, 47-63, and 66-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keiser [U.S. Patent #4,390,901] in view Vikene [WO 80/02093] for the same reasons that were set forth for claims 4 and 5 above.

29. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article "Teletext Signal Generation Equipment And Systems" by Mothersole and the GB patent document to Betts [GB 1556366].

I. The showing of Mothersole:

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The examiner takes Official Notice that TV distribution systems typically comprised an origination broadcast station (i.e. the network station), intermediate broadcast stations (i.e. affiliate stations), and ultimate receiver stations (i.e. the households owning TV receivers). As is evidenced by the Mothersole article, such systems were known to have comprised:

a) A teletext page generation/editing device (see figure 2), located at the origination station, which operated: to receive/create frames of graphics data/information; to encode the received/created frames of graphics data/information into transmittable teletext pages by adding various control signals to the graphics data, i.e. such as page numbers, thereby producing the required packetized teletext data for transmission; and means for inserting the packetized teletext data into the vertical blanking interval of the network programming for transmission to the intermediate receiver stations;

b) Various forms of teletext data linking circuitry (note figure 4a-4c), located at respective ones of the intermediate stations, including a switching data bridge (figure 4c) which operates: to receive the network programming from the origination station via a *video link*; to extract the packetized data from the network programming; to detect those packet which correspond to teletext pages which are to be replaced with locally generated teletext packets and to detect those packets which correspond to pages which are to be rebroadcasted; to replace those of the

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detected packets which are to be replaced with local packets with said local packets; and to insert the bridged packet stream, comprised of the network packets which were to be rebroadcast and the inserted local packets into the vertical blanking interval of the TV programming being broadcast from the respective intermediate station; and

c) Teletext decoding and display circuitry, located at the ultimate receiver stations, which: receive the television signal being broadcasted by the intermediate station; which extract and decode those “portions” of the received teletext data packets which correspond to selected/desired teletext pages.

With respect to the claim limitations of claim 13, the following is noted:

A) The network/origination station described the Mothersole article inherently comprises encoding circuitry for combining “received graphics data” with “received control signals” wherein the received control signals comprise generated teletext page numbers;

B) The affiliate/intermediate stations described the Mothersole article, which are implemented with the bridging circuitry of figure 4c, correspond to the recited “first data receiver station” in that the inherently used the “received control signals” contained in the network broadcast to identify those packets of teletext data which were to be replaced with local packets and those packets which were to be “transmitted” to the ultimate/household teletext data receivers;

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C) Said ultimate/household teletext data receivers in the Mothersole system, including teletext decoding circuitry, which correspond to the recited “second data receiver station” in that they used the “received control signal” to select those “portions” of the transmitted teletext data, i.e. desired teletext pages, which were to be processed and displayed; and

D) Figure 4c of Mothersole article, and its associated description, at least provide implicit evidence the fact that the affiliate/intermediate stations of the Mothersole system comprised all of the structures recited structures which were comprised in the preamble of claim 13 (note that the local “Teletext Origination System” comprises a computer of the type illustrated in figure 2).

II. Differences:

Claim 13 differs from the showing of Mothersole only in that Mothersole did not describe the ultimate/household teletext data receivers as having comprised a “computer” as is required by the preamble of the claim.

III. Obviousness:

Betts has been cited because it evidences the fact that it was known in the art to have implemented ultimate/household teletext data receivers with a computer (i.e. “CPU”) in order to simplify known teletext decoding circuitry [see figure 1 and lines 50-54 on page

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1]. Based on this showing, the examiner maintains that it would have been obvious to one skilled in the art to have implemented the ultimate/household teletext data receivers in the Mothersole system using the simplified decoding circuitry which was described by Betts.

30. Claims 14-17, 115-118, and 121-152 are is rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article "Teletext Signal Generation Equipment And Systems" by Mothersole and the GB patent document to Betts [GB 1556366] for the same reasons that were set forth for claim 13 above.

31. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over the article "Videocassette Banks Automate Delayed Satellite Programming" by Chiddix in view of Germany [GB 959,274] for the same reasons that were set forth for claim 3 above.

32. Claims 19-22 and 153-188 are rejected under 35 U.S.C. 103(a) as being unpatentable over the article "Videocassette Banks Automate Delayed Satellite Programming" by Chiddix in view of Germany [GB 959,274] for the same reasons that were set forth for claim 18 above.

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33. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article “Teletext Signal Generation Equipment And Systems” by Mothersole and the GB patent document to Betts [GB 1556366] for the same reason that was set forth above for claim 13 . The following is noted:

A) Teletext data constitutes a form of “mass medium programming”.

34. Claims 19-22 and 153-188 are rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article “Teletext Signal Generation Equipment And Systems” by Mothersole and the GB patent document to Betts [GB 1556366] for the same reason that was set forth above for claim 18 .

35. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article “Teletext Signal Generation Equipment And Systems” by Mothersole in view of the publication “CBS/CCETT North American Broadcast Teletext Specification” (hereafter “Teletext Specification”).

I. The showing of Mothersole:

The examiner takes Official Notice that TV distribution systems typically comprised an origination broadcast station (i.e. the network station), intermediate broadcast stations (i.e. affiliate stations), and ultimate receiver stations (i.e. the households owning TV

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receivers). As is evidenced by the Mothersole article, such systems were known to have comprised:

a) A teletext page generation/editing device (see figure 2), located at the origination station, which operated: to receive/create frames of graphics data/information; to encode the received/created frames of graphics data/information into transmittable teletext pages by adding various control signals to the graphics data, i.e. such as page numbers, thereby producing the required packetized teletext data for transmission; and means for inserting the packetized teletext data into the vertical blanking interval of the network programming for transmission to the intermediate receiver stations;

b) Various forms of teletext data linking circuitry (note figure 4a-4c), located at respective ones of the intermediate stations, including a switching data bridge (figure 4c) which operates: to receive the network programming from the origination station via a *video link*; to extract the packetized data from the network programming; to detect those packet which correspond to teletext pages which are to be replaced with locally generated teletext packets and to detect those packets which correspond to pages which are to be rebroadcasted; to replace those of the detected packets which are to be replaced with local packets with said local packets; and to insert the bridged packet stream, comprised of the network packets which were to be rebroadcast and the inserted local packets into the vertical

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blanking interval of the TV programming being broadcast from the respective intermediate station; and

c) Teletext decoding and display circuitry, located at the ultimate receiver stations, which: receive the television signal being broadcasted by the intermediate station; which extract and decode those “portions” of the received teletext data packets which correspond to selected/desired teletext pages.

With respect to the claim limitations of claim ¹³~~13~~, the following is noted:

A) The network/origination station described the Mothersole article inherently comprises circuitry (i.e. figure 2) for generating an “information transmission” comprised of packetized teletext data wherein the packetized data was created by combining received graphics data with “received control signals”; i.e. wherein the received control signals included teletext page numbers;

B) The affiliate/intermediate stations described the Mothersole article, which are implemented with the bridging circuitry of figure 4c, correspond to the recited “first data receiver station” in that the inherently used the “received control signals” contained in the network broadcast to identify those packets of teletext data which were to be replaced with local packets and those packets which were to be “transmitted” to the ultimate/household teletext data receivers;

C) Said ultimate/household teletext data receivers in the Mothersole system, including teletext decoding circuitry, which correspond to the recited “second data

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receiver station” in that they used the “received control signal” to select those “portions” of the transmitted teletext data, i.e. desired teletext pages, which were to be processed and displayed.

II. Differences:

Claim 23 differs from the showing of Mothersole only in that claim 3 required the “information transmission” from the origination station to have further comprised a “designation signal” for designating at least one receiver to which the “control signal” is directed.

III. The showing of the cited “Teletext Specification”:

The “teletext specification” has been cited because it exemplifies all of the different types of control codes which are contained within the packets of a conventional teletext information transmission. Lines 13-14 on page 22 of the cited Teletext Specification evidences the fact that those skilled in the art had recognized the need/desire to have directed specific packets of teletext data to a specific user and/or groups of users by adding control codes to the packets which “**designate**” the user or group of users to which the packets of teletext data is directed.

IV. Obviousness:

In view of the known need/desire to have transmitted teletext data to specific users as evidenced by the cited Teletext Specification, it would have at least been obvious to one of ordinary skill in the art (i.e. if not inherent) to have added additional control codes to

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the packetized teletext data being distributed within the Mothersole system, whereby said additional control codes could be set so as to “**designate**” the user or group of users to which the packetized data was directed.

36. Claims 24 and 189-224 are rejected under 35 U.S.C. 103(a) as being unpatentable over conventional teletext distribution systems as evidenced by the article “Teletext Signal Generation Equipment And Systems” by Mothersole in view of the publication “CBS/CCETT North American Broadcast Teletext Specification” (hereafter “Teletext Specification”) for the same reasons that were set forth for claim 23 above.

37. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851].

As is illustrated in figures 1 and 2, Haselwood et al. disclosed: 1) circuitry (i.e. 10) for providing/inputting network television programming; 2) circuitry (12 and 22) for providing/inputting monitoring codes; 2) circuitry (14) for adding the provided monitoring codes to the vertical blanking interval of the provided network programming to produce/provide a combined network broadcast signal; 3) circuitry (i.e. including network feed 16) for transmitting the combined network broadcast signal to at least one of a plurality of intermediate broadcast stations (18 and 20) wherein the intermediate broadcast station selectively broadcasts the combined network broadcast signal and

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locally produced broadcast signals; and 4) a receiver station (figure 20) which receives the TV programming broadcasted by the intermediate broadcast station and which extracts the monitoring codes from the received TV programming in order to gather statistics as to the use of the network broadcast programming by the intermediate broadcast station. More specifically, by comparing the sequence of monitoring codes which are extracted at the receiver cite with the sequence in which the monitoring codes were actually transmitted from the network station (i.e. the “scheduled” transmission times), said network broadcasting station was able to determine how and if its network programming was being properly used/rebroadcast by the intermediate stations. It is noted that Haselwood et al. also recognized that the monitoring codes could also be extracted from the programming received by the household TV receivers so as to determine if and how the network programming was used by a given household [note 50-55 of column 3].

The examiner notes the following:

A) While not explicitly stated in Haselwood et al., the examiner maintains that:

1) the network broadcast station *obviously* comprised means for inputting a network programming “broadcast schedule” into the network station; and 2) that the affiliate broadcast station *obviously* comprised means for inputting an affiliate programming “broadcast schedule” into the affiliate broadcast station.

CLEARLY, the network and affiliate broadcast stations in Haselwood et al.

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would have broadcasted the television programming according to relatively strict broadcasting schedules and would not have simply broadcasted the programming randomly! This is highlighted by the fact that the TV viewing public has *always* been able to consult distributed local/affiliate TV broadcast schedules to determine what programming will be broadcasted from given local/affiliate broadcast stations at any given time of the day and by the fact that the accepted definition of the term “program” in the broadcast art is/was: “a scheduled radio or TV show.”

38. Claims 236-238 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851] for the same reasons that were set forth for claim 31 above.

39. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851] for the same reason that was described for claim 31 above. The examiner notes the following:

A) The receiving station shown in figure 2 of Haselwood et al. functions to store a record of the monitoring codes which have been received and then transmits this record to

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a remote location for comparison with the sequence in which the codes were originally transmitted.

B) The recited "transmission schedule" is met by the transmission schedule which is inputted at the intermediate station (18).

40. Claims 241-248 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851] for the same reason that was described for claim 41 above.

41. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851] for the same reason that was described for claim 31 above. The examiner notes the following:

A) The receiving station shown in figure 2 of Haselwood et al. functions to store a record of the monitoring codes which have been received and then transmits this record to a remote location for comparison with the sequence in which the codes were originally transmitted.

B) The recited "transmission schedule" is met by the transmission schedule which is inputted at the intermediate station (18).

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42. Claim 249 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al. [US Patent #4,025,851] for the same reason that was described for claim 46 above.

43. Claims 2 to 303 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 89/02682.

Considering claims 2 to 303, to the extent that applicants can satisfy the enablement requirement of 112 1st but not the support requirement, a comparison has been made between a) the *alleged pending claim support* (Examiner incorporates by reference the *alleged pending claim support*; see *previous responses to Section 112 rejections*) and b) embodiments/processes taught in applicants' publication of March 23, 1989, by way of WO 89/02682. It is found, even if pending claims can be arrived at with less than undue experimentation, then it would most likely be from 'mixing and matching' the WO 89/02682 embodiments. And the ordinary artisan, to the extent that mixing and matching could have been done with undue experimentation, would have done so for the benefit of providing greater functionality to the subscriber.

44. Pending claims of the group, 2 to 303, that are directed to processes of controlling cable head end processes and monitoring of those processes and combined medium presentation, they are rejected under 35 U.S.C. 103(a) as being unpatentable over Greenberg U.S. patent 4,547,804 ('804) in view of Galumbeck et al U.S. patent no. 4,725,886 ('886).

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Considering pending claims of the group, 2 to 303, that cover, *inter alia*, processes of controlling CATV head end process and apparatus and monitoring of those processes and combined medium presentation are suggested by '804. '804, suggests the claims that cover method and apparatus for identifying and verifying the proper airing of television broadcast programs wherein the television broadcaster can be assured that the programs were televised and received and properly aired at the scheduled time. '804 teaches utilizing pre-recorded or line video programs in which imprinted on a pre-selected scanning line is a digital encoded identifying number. These video programs with digital encoding are then distributed to network and local broadcast stations to be televised with this identification. A plurality of selected aired television channels are then automatically simultaneously monitored at a typical reception site whereby the encoded broadcast is appraised as to the quality of its audio and video, identified and timed, and which information is then stored for a later comparison to that which was actually intended to be aired. The illustration and written description for Figure 2 suggests, *inter alia*, the identification signal generator having all of memory means, detector means, video tape recorder, playback, and video tape recorder, and central computer, and processes thereof. The illustration and written description for Figure 2 suggests, *inter alia*, the broadcasting from the transmission station to the cable station and also suggests the monitor station and processes thereof. Notwithstanding, the switchable RF tuner, decoder, sequential storage, video channel switch, time generator, verification signal generator, and computer storage are suggested, *inter alia*, by Fig 3 and it's written description. Claimed subject matter directed to specific *data* and *other*

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programming sources, uses, and processes, that are not suggested by '804, are suggested by '886. For example, '886 suggests the claims that cover a communications system having an addressable receiver that is programmable, addressable, for receiving, storing, processing, and sending digital and conventional video audio and control signals for use in a cable video network. '886 suggests reception of audio and composite video and digital data received from various sources such as a satellite transponder and from local sources. The digital data may be processed into textual video data by character generation techniques, as may be other digital data received from a local keyboard, local weather sensors or *other* digital data interfaces. The receivers may be addressed in units or groups for purposes of receiving individually, locally or regionally tailored text information and are typically controlled simultaneously from one control source. The combination of '804 and '886, would have suggested the claimed invention to the ordinary artisan so as to be obvious, as motivation, *inter alia*, is found for the purpose of fulfilling the needs of data consumers throughout a large geographic area, and to have continual, current local and national information.

45 Pending claims of the group 2 to 303, that are directed to, *inter alia*, processes of controlling broadcast subscriber stations, including decrypting, processing, storing, generation, and monitoring of those processes and combined medium presentation, are rejected under 35 U.S.C. 103(a) as being unpatentable over Jeffers et al (U.S. patent no. 4,739,510)('510).

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Considering pending claims of the group, 2 to 303, that are directed to, *inter alia*, processes of controlling broadcast subscriber stations, including decrypting, processing, storing, generation, and monitoring of those processes and combined medium presentation, they cover what '510 suggests...broadcast programming including, *inter alia*, audio and control signals that are digitized and inserted into the horizontal blanking interval of distributed television programming. The control signal are in the form of a data stream which includes a header containing group address, sync, and programming information for receiving units, and a portions addressable to contain information for control of particular individual receiving units in an addressed group. Information is in the addressable portions and can be altered on a real time basis so system operator has direct control over certain functions of individual receiving units from the transmitting end. Figure 1 and it's written description disclosure, *inter alia*, a broadcast network having a computer, business center computer, voice response systems, monitor, controller, programming input, and video and audio channels to a program processing unit. There is disclosure of a satellite system, and a subscriber station having receiving apparatus and addressable decoding controller, and television display. Figure 2a,b and it's written description disclosure, *inter alia*, various processing circuitry and decryption circuitry for audio, memory, buffer, and related processes. Figure 3 and it's written description disclosure, *inter alia*, signal formatting with packets, headers, addressable bits, error correction bits, encryption, and *other*. Figure 4 and it's written description disclosure, *inter alia*, more signal formatting including sync and address information, program related information, impulse pay per view,

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checksum, program cost, program time, programming tier authorization, unique identification of programming, and various group and system addressing and processes using the signaling.

Figures 5,6a-b, and corresponding written description disclosure, *inter alia*, more signal formatting including message types having, authorization bit map, common audio key, home channel, as well as blocking bit map, call in time, telephone password, credit card password, overflow call in level, and also message time with subscriber addressing, and signature number used to select key fragments from subscriber signature key to decrypt, and encrypted message, and checksum. Figures 6c-e, and corresponding written description disclosure, *inter alia*,

message types 3-5, having call in telephone number, alternate call in telephone no, channel assignment tables for first 8 and second 8 channel respectively, and process related thereto.

Figures 6f-g and corresponding written description disclosure, *inter alia*, signal format for message types 6-7, having direct control of segments, control and reset, audio threshold, data threshold, zip code blackout, mask blackout, trap message bit for peripheral interphase, and peripheral device signatures a-b respectively. Figure 7, and corresponding written description disclosure, *inter alia*, subscriber station process for channel selection, decrypting, processing, unit address mapping, and storing decrypted information. Even though it appears, *inter alia*, that applicants may be reciting their claims so broadly that “local” generation of various programming can be combined with programming received from elsewhere to form a combined medium presentation for subsequent transmission to the subscriber station, examiner *only* finds support for the “local” generation to occur at the subscriber station and *not a station*

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intermediate. However, to the extent that there is support for the former mentioned “local” generation, even though it is not found, it would have been obvious, *inter alia*, to provide the system operator with greater control of the network.

46. Pending claims of the group, 2 to 303, that are directed to, *inter alia*, processes of controlling affiliate stations and processes and monitoring of those processes and combined medium presentation, they are rejected under 35 U.S.C. 103(a) as being unpatentable over Haselwood et al (U.S. patent no. 4,025,851) (‘851) in view of the publication “System and Apparatus for Automatic Monitoring Control of Broadcast Circuits” by Yamane et al, and the Australian Patent document No. 74,619 to Hetrich (‘619).

Considering pending claims of the group 2 to 303, that are directed to, *inter alia*, processes of controlling cable head end processes and monitoring of those processes and combined medium presentation, ‘851 suggests the term ‘processor’ wherein the network station, the affiliate station, and the individual circuits which make up the network and affiliate stations, all function to process signals and hence are considered processors of a kind. ‘851, suggests television broadcast distribution processes and apparatus having a central broadcasting station represented by elements 10, 12, 14, and 22, and a network station including a source 10, of network television programming, wherein the network programming is distributed at 16 from the network station to a plurality of “local” affiliate television broadcast stations, and wherein the plurality of local affiliate broadcast stations receive, and selectively re-broadcast the network

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television programming wherein Figure 1 and it's written description discloses, *inter alia*, one of the suggested affiliate stations. Figure 3 and it's written description discloses, *inter alia*, structure of a typical broadcast distribution system having each of the plurality of affiliate stations of the distribution system; and having, a source of local programming 44, which consists of different television signal sources including video tape recorders, wherein some of the video tape recorders function to record portions of the received network programming such that the record network programming could be played back and broadcast at some future time thereby imparting a predetermined time to delay the local re-broadcast of the network programming (see lines 29-39 of column 4). There is also disclosed, *inter alia*, a television program selector 16, which receives the locally produced programming from the local programming source 44, and which selectively outputs one of the two types of programming for broadcast and for re-broadcast via a predetermined television channel transmitter 42. As suggested, *inter alia*, the affiliate station structure operates by: receiving network television programming from the network station 16; producing local television programming via local programming source 44; selecting recorded portions of the received network television programming, via tap recorder located within the local programing source, wherein a delay is imparted to the network programming prior to being reproduced and transmitted as part of said locally produced television programming (see 44 as described, *inter alia*, in lines 28-33, of column 3); selecting one of the received network programming and the locally produced television programming for broadcast and for rebroadcast of the selected programming to a plurality of subscribers over the

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predetermined television channel 42. '851 discloses a modification to the typical system with circuitry that enables a given network station of the system to monitor programming being broadcast and re-broadcast by the affiliate stations. '851 suggests, *inter alia*, enabling the network station to embed signals into the VBI of the network television programming that was being broadcast to the affiliate station referring to 12 and 14 of figure 1, so that the embedded codes (referring to figure 4) identify the programming being broadcast by title, source of origin, time of transmission (see, *inter alia*, lines 51-68 of column 5 and lines 1-5 of column 6). Moreover, '851 suggested, for accomplishing the monitoring, allowing each affiliate station to have contained means (i.e. computer system 30, 32, 34, and 36, of figure 3) for monitoring and "logging" the television programming being broadcast from the affiliate station via the detection and monitoring of said embedded codes. The computer system at each of the affiliate station is operable to report the results of the monitoring and logging process to a remote station location such as the network station (i.e. to the centrally located host computer system 38 of figure 3). '851 suggests the embedded monitoring *instructions* codes as encoded and distributed by the television distribution system. The codes represent additional information encoded then embedded within the network television programming so that they could be broadcast downstream to the affiliate stations and local TV receivers. Figure 1 and it's written description disclosure, *inter alia*, a transmitter station receiving mass medium television programming signal from a network programming signal source (e.g. camera 10), wherein the mass medium programming signal, implicitly comprises audio (it's conventional). The figure 1 station, *inter*

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alia, receives instruction signals used for generating the monitoring codes which were generated at figure 1 12, e.g., wherein the generated monitoring codes (see figure 4) were then embedded into the mass medium programming via a summing circuit 14 of figure 1 for communication to the affiliate station (e.g. "Network outlets"). The network feed 16 of figure 1 corresponds to means for performing communication programming to a storage device in that the network feed communicates mass medium programming to the affiliate station where it is selectively received and recorded by a VTR (e.g. storage device), for delayed re-broadcast. The monitoring codes are embedded into the mass medium programming so as to have occurred during one or more horizontal lines of the vertical blanking interval of the mass medium programming. At the encoder 12 of figure 1, has to have been controlled so as to communicate the monitoring codes to the summing circuit 14 at "selected" times in view that the monitoring codes were carried through the line at the selected time in which they were provided to summing circuit 14. The described VTR corresponding to various recited storage medium, stores the monitoring codes along with the mass medium programming and therefore comprises means for performing storing of programming signal and instruct signal at a storage device. Pending claims of the group, 2 to 303, that are directed to, *inter alia*, processes of controlling cable head end processes and monitoring of those processes and combined medium presentation, not suggested by '851, are further suggested by Yamane et al and '619. Yamane et al disclose a television broadcast system for embedding network monitoring codes within a given line of VBI of the broadcast "mass medium" programming. Yamane et al also disclose, *inter alia*, embedding control signals into

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a second/different line of VBI of the television programming so as to provide additional control over the flow of the television programming through the downstream affiliate stations. '619 suggest a radio and television broadcast system in which control signals are embedded in the network radio/television programming for the purpose of controlling the flow of the radio/television programming through the plurality of affiliate stations. Hetrich discloses, *inter alia*, embedding control signals used for identifying the portions of the network programming which are to be recorded by the storage device of the affiliate stations for delayed re-broadcast. Because Yamane et al suggest that it is desirable to have monitoring codes and control codes within different scan lines of the same network television programming broadcast for providing respective control over monitoring and controlling functions of the television broadcast system; and because Yamane et al suggest implementing the circuitry needed to simultaneously encoded and embed two types of codes into the same TV broadcast (see figure 6.8 on page 71 of the translation), examiner concludes that it would have been obvious to have modified the encoder 12 of '851 to receive "control signals", e.g. in addition to "monitoring signals" already described by '851, and to have simultaneously encoded and embedded and received control signals and received monitoring signals into the same network television signal via summing circuit 14, e.g. the embedding of the signals inherently takes place at selected times which are determined by the location of horizontal lines into which said encoded signals were embedded. Taken together, these monitoring signals, and control signals correspond to instruction signals. '619 suggest embedding control codes of the type found in the above described modified '851 system, for

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controlling and automating the recording of selected portions of received network programming at the affiliate stations. By controlling the affiliate stations to record the portions of network programming for delayed broadcast, the control codes are effective to instruct the affiliate station to delay the network programming for some selected period of time. Hence, in view of '851 disclosure, examiner concludes it would have been obvious to one skilled in the art to have used the control codes/signals in the modified system of '851 for controlling and hence automating the '851 disclosed means for recording of the selected portions of network television programming at the affiliate stations.

47. Pending claims of the group, 2 to 303, that are directed to, *inter alia*, processes of controlling subscriber station processes and monitoring of those processes and of combined medium presentation and processes, are rejected under 35 U.S.C. 103(a) as being unpatentable over either one of the common subject matter suggested by Campbell et al (WO81/02961, aban. Parent Appl. No. 135,987; U.S. patent 4,536,791))('791 is specifically referenced for convenience) in view of at least one or more of: Breeze "Television Line 21 Encoded Information And It's Impact on Receiver Station Design"; Schnee (U.S. patent no. 4,290,142) ('142); and Zaboklicki (DE 2,904,891)('891).

Regarding Campbell et al: the PCT publication date, noted on the front page of Campbell et al is October 15, 1981. For this reason, Campbell et al are considered a 102a reference. However, the effective priority of the material sourced for purposes of this rejection dates to the

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filing of the corresponding abandoned C.I.P. grant parent application no. 135,987, filed March 31, 1980. What was added in the C.I.P. of issue, is disclosure corresponding to Figures 2a, b, and 14-17 of the '791 patent. Because, the rejection herein relies on Fig's 1, 2, and 3-13, and corresponding written description and not Fig.'s 2a, b, and 14-17, the effective filing date of the teaching subject matter relied upon for this rejection in the '791 patent is March 31, 1980. A copy of the abandoned grand parent was provided in application 08/468,641.

Considering pending claims of the group, 2 to 303, that cover, *inter alia*, processes of controlling subscriber station processes and monitoring of those processes and of combined medium presentation and processes that are suggested by Campbell et al. Campbell et al suggest the claims that cover an addressable cable television control system controlling television program and data signal transmission from the cable head end to the subscriber stations. The data signals include control and text embedded in the vertical blanking interval. There is also suggested full channel Teletext data in video line format which may be transmitted on dedicated text channels with the modification of only head end processors. There are intelligent converts at the subscriber locations for using the data signals to control access to the system on the basis of channel, tier, of service, special event and programming. The converter uses graphic display generator for generating display signals for the combined medium presentation of text data on the television receiver and for generation of predetermined messages for viewer concerned access, emergencies, and other functions. The converter processes text data, and selected full channel text data transmitted in video line format. The keyboard of the subscriber provides different

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functional inputs for interfacing with the system. The converter is interactive two way for data acquisition and control. Figure 1 and it's written description suggest, *inter alia*, the central data control at cable head end, and the combination of control signals, instruction signals, audio programming, video programming. There is also disclosed addressable converter and at the subscriber station having input. Figure 2 and it's written description suggest, *inter alia*, formatting at the cable head end of data receiver from data sources, and various addressing control apparatus and processes. Figure 2a-b and corresponding written description disclose, *inter alia*, the packet length, and features of the video field line layout. Figure 3 and corresponding written description disclose, *inter alia*, clocking control, local input, data storage, and floppy disk storage medium, printer, generation of control data, connection to remote control, and additional console inputs, and remote terminal and processes therefore. Figure 4 and corresponding written description disclose, *inter alia*, digital control and timing and processing and scrambling at the head end and processes thereof. Figure 6 and corresponding written description disclose, *inter alia*, various subscriber station method and apparatus for receiving programming, tuning programming, detecting programming, local inputting, descrambling and decrypting , memory, various input means, and various methods and processes therefore. Figure 7 and corresponding written description disclose, *inter alia*, the generation of graphics and video,, and memory means, and processor means, and processes thereof. Figure 8 and corresponding written description disclose, *inter alia*, level transition, analog comparator, and processes for vertical interval data extraction, and generation, and processing, for presenting.

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Figure 9-10 and corresponding written description disclose, *inter alia*, subscriber station head end converter and television, remote control, and security monitoring, and processes therefore. Figure 11 and corresponding written description disclose, *inter alia*, data structure, for control signals, and instruction signals, for control of the subscriber station and for control of processing and for control of monitoring, and for control of combined medium presentation. Figure 12 and corresponding written description disclose, *inter alia*, processing and generation of combined medium presentation for audio, video, graphics, and subscriber input, descrambling, and processing. Claims that cover processes of controlling subscriber station processes and monitoring of those processes and of combined medium presentation and processes that are not suggested by Campbell et al are suggested by Breeze. For example, Breeze suggests a system for transmission of accurate time information during the vertical interval and of standard television broadcasts. The disclosure suggests implementation of digital tuning, test signaling, facsimile, and other uses for transmission of digital encoding. Figure 1 and it's written description disclose, *inter alia*, generation of timing information. Figure 2 and it's written description disclose, *inter alia*, code format having bits for identifying information type to follow, such as time, and text, and bits containing time data, and channel codes. Figure 4 and it's written description disclose, *inter alia*, process and method for detecting codes and decoding various signaling. Figure 5 and it's written description disclose, *inter alia*, process and method for numeric generation of time and channel display. Figures 6-7 and written description disclose, *inter alia*, process and method for timing utilizing encoded channel identification. Figure 8 and

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it's written description disclose, *inter alia*, process and method for digital channel comparison and storing, and the column prior to the conclusion suggests automatic programming and automatic tuning. Claims that cover processes of controlling subscriber station processes and monitoring of those processes and of combined medium presentation and processes that are not suggested by Campbell et al and are not suggested by Breeze, are suggested by '142. For example Schnee suggests, *inter alia*, an interactive cable television system having combined medium presentation of data, audio, and video, which has been transmitted on different channels of time, space, and frequency (see second to last paragraph). '142 suggests combined medium presentation of a locally generated image with video. There is also suggested a combined medium presentation of data and video. And there is also suggested combined medium presentation of radio and television. Claims that cover processes of controlling subscriber station processes and monitoring of those processes and of combined medium presentation and processes that are not suggested by Campbell et al and are not suggested by Breeze, are not suggested by '142, are suggested by '891. For example, '891 suggests, *inter alia*, the combined medium presentation and processing therefore, including the display of portions of graphic presentation. Pending claims therefore covering combined medium presentation of data and video would have been obvious, *inter alia*, for providing cable subscribers with enhanced interactive processes including enhancing conventional entertainment, providing useful information, and offering greater control to the cable head end operators.

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48. Pending claims of the group, 2 to 303, that are directed to, *inter alia*, either processes of controlling *affiliate* stations and processes and monitoring of those processes and combined medium presentation or processes of controlling *subscriber* stations and method and process for monitoring and providing combined medium presentations, or both, that fall out each particular determined group members of the group of claims described in rejection above, the groups are *provisionally* rejected further in view of one or more of:

- Haselwood et al (US. Patent No. 4,025,851);(see reasoning and level of skill at '81 as discussed in rejection below and above);

- The publication "System and Apparatus for Automatic Monitoring Control of Broadcast Circuits" by Yamane et al;(see reasoning and level of skill at '81 as discussed in rejection below and above);

- Australian Patent document No. 74,619 to Hetrich;(see reasoning and level of skill at '81 as discussed in rejection below and above);

- “A Public Broadcaster’s View of Teletext in the United States”, Gun; (see discussion and reasoning given below);

- Master Control Techniques” by Marsden vol 9 of the “Journal of the Television Society”, '59; (see reasoning and level of skill at '81 as discussed in rejection below and above);

- ”The Automation of Small Television Stations” by Young et al vol 80 of the “Journal of the SMPTE”, Oct. '71; (see reasoning and level of skill at '81 as discussed in rejection below and above);

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-U.S. Patent 3,761,888 to Flynn;(see reasoning and level of skill at '81 as discussed in rejection below);

-U.S. Patent 3,627,914 to Davis;(see reasoning and level of skill at '81 as discussed in rejection below);

-”Microprocessor For CATV Systems” by Tunmann et al;;(see reasoning and level of skill at '81 as discussed in rejection below);

-U.K. Patent 959,374 to Germany;(see reasoning and level of skill at '81 as discussed in rejection below);

-”Automatic Control of Video Tape Equipment at NBC, Burbank”, by Byloff, '59; (see reasoning and level of skill at '81 as discussed in rejection below);

-”Video Banks Automate Delayed Satellite Programming”, by Chiddix, '78;(see rejections below);

-”The Digitrol 2 ~ Automatic VTR Programme Control”, by Skilton, pages 60-61, of - “International Broadcast Engineer”, 3/81;(see reasoning and level of skill at '81 as discussed in rejection below);

-CATV Program Origination and Production, by Schiller et al, '79 (see 892); (this reference merely sets forth, *inter alia*, in one place and in laymen terms, what the level of skill in the art rejection above does in technical terms; so to the extent the above/below rejection is too technical with respect to level of skill in the art at '79, the level is described herein in laymen terms for purpose of clarity);

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-Television Production Handbook, by Zettl, Second Edition, '69; (see reasoning and level of skill at '81 as discussed in rejection below);

-Vikene, WO 80/02093; (Vikene suggests, *inter alia*, a method of transmitting from a broadcaster in addition to the information signal remote control signals, in order to on the receiving side, corresponding to announced programs from the broadcaster which are provided with coded markings, to effect recording of the information on a tape or video recorder. Which markings are also recorded and the recorder is programmable in accordance with the announced programs, so as to be reproduced at a desired time using the recorded markings and the program set in the recorder to sort out the desired information and standard stop the recorder; hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Vikene disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained in the recording of the information on a tape or video recorder);

-Greenberg U.S. patent 4,547,804;(see rejections above considering the benefit of greater network operator control);

-Jeffers et al U.S. patent 4,739,510;(see rejections above considering the benefit of the ability to, *inter alia*, decrypt and hence secure programming);

-”Electronic Image and Tone Return Equipment With Switching System and Remote Control Receiver for Television Decoder” by Werner Diederich DT 23 56 969 A1;(Diederich suggests, *inter alia*, an electronic image and tone return equipment with switching

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system and remote control receiver for television decoder. hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Diederich disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-Campbell et al WO81/02961; to the extent that the above and below do not address this group of claims and to the extent that Campbell et al do (see above), it would have been obvious for the benefits described above including, *inter alia*, enhanced subscriber station services);

-Campbell et al Aban. Parent Appl. No. 135,987; (same as WO81/02961);

-Campbell et al U.S. patent 4,536,791('791); (same as WO81/02961);

-“Automatic Storage and Retrieval of Videotaped Programs”, by Kazama et al, 4/79;(Kazama et al suggests, *inter alia*, a fully automatic storage receive of Videotaped Programs that is computer controlled, so as to constitute tape- traffic and handling system. hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kazama et al disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-“Code accompanying TV program turns on video cassette recorder in proposed scheme”, by J Gosch, vol 54 no. 3, February 10, 1981; (Gosch teach, *inter alia*, code accompanying TV programming for turning on a videocassette recorder for delayed or altered schedule programming; as well as for unscheduled broadcasts and for alerting emergencies and providing

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updates. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Gosch disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-“An Automated Programming Control System For Cable TV”, by Stern (80);
(Stern suggests, *inter alia*, an automated programming control system for Cable TV having a machine control interface unit containing special circuits for sensing control track pulses, so the system can accurately search for different program material and commercials recorded on one tape; also there is suggested pre-roll of a tape to a specific program; and rewind to a previous segment...so as to “essentially” be “random-access” to the contents of the video tape, under full system control. Hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Stern disclosure, it would have been obvious to one having ordinary skill in the art for the convenience);

-“Television Line 21 Encoded Information and It’s Impact on Receiver Design”, Breeze, Nov. ‘72; (see rejection above. Hence, to the extent that the above and below discussions do not suggest the particular determined group members of the group of claims, and to the extent that it is met by Breeze (see above) it would have been obvious for the convenience gained);

-“Automatic Switching in the CBC - An Update” by M.W.S. Barlow (Sept. 76);
(suggests, *inter alia*, **network controlled** automatic switching process. Hence, to the extent that

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the above and below discussions do not suggest the particular determined group members of the group of claims, and to the extent that it is met by the Barlow disclosure, it would have been obvious for the convenience gained);

- "Transmission no Alphanumeric Data by Television", by Millar et al 1 370 535, GB-1974-10; (see discussion and reasoning below);

- Galumbeck et al (U.S. patent no. 4,725,886); (to the extent that the above and below discussion does not suggest the particular determined group members of the group of claims, and to the extent that the difference is met by Galumbeck et al, it would have been obvious for the convenience gained);

- CBS/CCETT North American Broadcast Teletext Specification, 5/81; (suggests, *inter alia*, captioning transmitted to a decoder for superimposing over the program video at a pre-designated time, and selecting a classification of captions so as to be displayed over program video. Hence, to the extent that the above and below do not suggest the particular group of claims and to the extent it is met by the CBS/CCETT disclosure, it would have been obvious for the convenience gained);

- Zaboklicki (DE 2,904,891); (to the extent that the discussion above and below does not suggest the particular determined group members of the group of claims, and to the extent it is met by Zaboklicki, it would have been obvious for the benefit of the convenience gained);

- Nagel (U.S. patent no. 4,064,490); (suggests, *inter alia*, methods and apparatus for the reception, and processing of computer applications. Hence to the extent the above and below

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discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Zaboklicki disclosure, it would have been obvious for the benefit of the convenience gained);

-Kakihara et al (U.S. patent no. 4,251,691);(suggests, *inter alia*, a center-to-end type information service system utilizing the public telephone networks that are fundamental communication media of nation-wide scale in which desired information is requested from the terminal side to the center by means of a telephone set of keyboard and then delivered to and received by a TV receiver, wherein a part of the center functions is transferred together with the exchange function to a subscriber located near the terminal so that the length transmission path connecting the center to terminals becomes shorter and the cost of the whole system can be reduced. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kakihara disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-Hedger et al (Telesoftware-Value Added Teletext); (suggests, *inter alia*, broadcast software and subscriber station computing apparatus having input and output device for interactive user applications. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kakihara disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

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-“The Vertical Interval: A General-Purpose Transmission Path”, Ted V. Anderson; (See discussion and reasoning below);

“A Public Broadcaster’s View of Teletext in the United States”, Gun; (see discussion and reasoning given below);

-“Automatic Program Recording System, Gaucher, ‘75; (suggests, *inter alia*, an automatic program recording system. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Gaucher disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-U.S. patent 4,290,142, to Schnee et al (to the extent that the above and below discussion does not suggest the particular determined group members of the group of claims, and to the extent that Schnee et al do, it would have been obvious for the benefit of the convenience gained).

For example, to the extent that pending claims of the group, 2 to 303, that are directed to, *inter alia*, processes of controlling cable head end processes and monitoring of those processes and combined medium presentation, and controlling subscriber station processes and monitoring of those processes, and for combined medium presentation, are not suggested by the above, they cover subject matter known as the ‘81 level of skill in the art (11/3/81) so that the combination would be obvious for implementing, *inter alia*, what was well known for the benefit of

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increasing network automation and hence provide the network control with more efficient means with which to operate and control said network. The following discussion is provided to establish the 'level of skill in the art' which existed at the time of applicants' alleged invention ('81), such skill level sets forth the context in which the applied art of record must be reviewed:

1. The examiner notes that local television broadcast stations, which only served small regional areas of a country (e.g. the USA), often lacked the financial resources required to create enough original television programing to fill their daily broadcast schedules. Thus, these local television stations became "*affiliates*" of a national television broadcast network (e.g. NBC, ABC, CBS, etc,...) whereby the national television network created original network television programming which could be transmitted to, and commonly rebroadcast by, all of the local affiliate stations. This arrangement allowed the cost of creating such original programming to be divided amongst the affiliate stations thereby reducing the cost to any one of the affiliates.¹¹

2. While, in practice, it was feasible to fill the affiliate stations' entire local broadcast schedules with network programming, such was known not to have been desirable. Specifically, there still remained a need to supplement said network

¹¹See, the first 23 lines In the full paragraph on page 85 of the article "Master Control Techniques" by Marsden which was published in volume 9 of the "Journal of the Television Society" in 1959.

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programming with locally originated programming tailored specifically to the needs and interests of the local audiences (e.g. local news programs, local commercials, etc,...).¹²

3. To accomplish the above, an arrangement was established in which a national broadcast station would broadcast network programming to all of its affiliate stations in accordance with a strict network broadcast schedule. This strict network broadcast schedule included scheduled "breaks" in the network programming which were then made available to the local affiliate stations for the purpose of inserting locally originated programming.¹³ This locally originated programming was known to have included previously broadcast network programming which had been recorded for delayed

¹² Note the first 23 lines in the second full paragraph of page 85 of the article "Master Control Techniques" by Marsden which was published in volume 9 of the "Journal of the Television Society" in 1959.

Note: lines 2-9 in the second column on page 806 of the article "The Automation Of Small Television Stations" by Young et al which was published in volume 80 of the "Journal of the SMPTE" in October of 1971.

¹³ Note the last 11 lines on page 810 of the article ... "The Automation Of Small Television Stations" by Young et al, which was published in volume 80 of the "Journal of the SMPTE" on October of 1971.

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rebroadcast.¹⁴ The resulting combined programming was then broadcast to the local audiences of the affiliate stations.

4. Early on, the local affiliate stations produced and inserted their own local programming into the network programming via a switching network which was controlled manually by local technicians. However, as technology progressed, methods for automating various aspects of the program insertion/switching process developed. Such developments included:

1) The development of automatic scheduling computers which could be programmed to execute a list of scheduled programming events whereby the list of events automatically controlled the sequence in which scheduled programming was produced and broadcast from a respective broadcast. Such computers were used to automate both the network television stations and affiliate television stations.¹⁵

¹⁴ See lines 25-41 in column 4 of U.S. Patent 4,025,851 to Haselwood et al. which was published on May 24, 1977.

¹⁵ Note: the last 11 lines on page 810 of the article "The Automation Of Small Television Stations" by Young et al. which was published in volume 80 of the "Journal of the SMPTE" in October of 1971.

Note: U.S. Patent # 3,761,888 to Flynn which was published on 9/25/73.

Note: U.S. Patent # 3,627,914 to Davies which was published on 12/14/71.

Note: the publication "Microprocessor For CATV Systems" by Tunmann et al. Which was Published by the Tele-Engineering Corp on 4/30/1978.

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2) The development of automated program cuing systems which include: equipment located at the national network for embedding cuing signals into the broadcasted network programming whereby said cuing signals identified the beginning and the end of each scheduled "break" in network programming, and equipment located at the affiliate stations which used the embedded cuing stations to determined the respective beginning and the respective end of each scheduled network "break" and, based on this determination, automatically cause its own scheduled local programming to be inserted into said "breaks" prior to "re-broadcast".¹⁶

5. Because ones of the affiliate stations were located in different time zones, equipment was required to compensate the broadcasted network programming for these time zone differences, i.e. if the same network programming was to have been broadcasted at the same local time throughout the entire country. This compensation was accomplished by delaying the broadcasted network programming which was provided to a given one of the affiliate stations, via a network of recording devices, as a function of the time zone in which the given affiliate station was located. Early on, due to the high

¹⁶ See: Australian Patent Document S.N. 074,619 by Hetrich which was published April 29, 1976.

See: U.K. Patent Document S.N. 959,374 by Germany which was published May 27, 1964.

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cost of this delay equipment, compensation was provided only at the central network station.¹⁷ But subsequently, as the cost of the delay equipment came down and as the use of highly expensive satellite transmission paths increased, said delay equipment began to be located within ones of the affiliate station locations.¹⁸ In either of these situations, when network programming was to be delayed in this manner, it was understood that any "program related data" that was carried with the network programming (e.g. such as the network cueing signals, network program monitoring codes; etc,...) also had to be delayed by the delay equipment in order to have maintained the precise timing relationship of such program related data with the said network programming.¹⁹

¹⁷ Note the article "Automatic Control of Video Tape Equipment at NBC, Burbank" by Byloff which was published by the National Broadcasting Company, Inc. in 1959.

¹⁸See: the publication "Video Banks Automated Delayed Satellite Programming" by Chiddix which was published in 1978.

See: the publication "The Digitrol 2 ~ Automatic VTR Programme Control" by Skilton which was published on pages 60-61 of the "International Broadcast Engineer" in March of 1981.

Note: lines 25-41 in column 4 of U.S. Patent 4,025,851 to Haselwood et al. which was published on May 24, 1977.

¹⁹See: the first 7 lines in the first full paragraph of the third column on page 39 of the publication "Video Banks Automate Delayed Satellite Programming" by Chiddix which was published in 1978.

Note: U.S. Patent 4,025,851 to Hazelwood et al. Which was published on May 24, 1977.

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Moreover, consider the state of television before the parent '81 disclosure...

The following discussion has been provided to emphasize the state of the television/radio broadcast art which existed at the time of applicants' alleged invention and, therefore, to further exemplify the context in which the applied prior art of record must be viewed. Support for this discussion is derived from the following prior art: 1) the publication "System and Apparatus for Automatic Monitoring Control of Broadcast Circuits" by Yamane et al; 2) the Australian Patent document No. 74, 619 to Hetrich; 3) the publication "The Vertical Interval: A General-Purpose Transmission Path" by Anderson; and 4) the British patent document No. 959,274 to Germany.

A) Contrary to the arguments presented by applicants in co-pending applications (e.g. S.N. 113,329)²⁰, it is maintained that the body of art pertaining to the broadcast of television programming the body of art pertaining to the broadcast of radio programming were, and still are, analogous arts. To suggest otherwise is to portray an unrealistically low level of skill in the art. The following facts provide evidence as to the analogous nature of these two arts:

1. First, it is noted that radio programming and television programming were communicated through radio and television distribution networks in the same basic way/format. More specifically, both radio/television distribution networks

²⁰The Examiner notes that application S.N. 113,329 has already been cited in the record and therefore its citation by Examiner herein is not prohibited.

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operated to produce, sequence and distribute radio/television programming to a plurality of household 'radio/television receivers based on predetermined radio/television broadcast schedules. In fact, the definition of the word program, as it pertains to the broadcast environment, was/is: "a scheduled radio or television show".

2 By the fact that the actual configurations of the radio and television networks themselves mirrored each other element for element. For example, both systems comprised national/network stations and affiliated local/regional stations wherein the local/regional stations operated to selectively rebroadcast network programming, or to broadcast locally produced programming in place of the network programming, to said household receivers. Almost the only difference between the configurations of the radio and television networks was that the circuitry needed to implement the television network was of a greater bandwidth than that of the radio network (e.g. the television network used VTRs in places where the radio network used ATRs);

3. By the fact that the prior art of record shows that, at the time of Applicants' alleged invention, those of ordinary skill in the art themselves

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understood radio/television distribution networks to be “analogous arts”.

For example, this fact is clearly reflected in the teaching of Hetrich that his disclosed control signal distribution circuitry, while described in detail with respect to radio broadcast networks, could likewise have been used within television broadcast networks (see: the first 4 lines on page 2 of the Hetrich document).

B) Television and radio broadcast networks, which comprised a plurality of local/regional broadcast stations affiliated with a respective central/national broadcast station, were notoriously well known in the art at the time of applicants’ alleged invention. The central/national broadcast station of these broadcast networks operated to create national television/radio programming and to broadcast said created programming to ones of its affiliate broadcast stations. Said ones of the affiliate stations received the broadcasted network television/radio programming and then either rebroadcast said received network programming or broadcast locally produced commercials/programs in place of said received network programming. The programming that was broadcast from the ones of the affiliate stations were received by a plurality of television receivers located at the households within the local region served by the affiliates, and/or were received and processed by additional ones of said affiliate stations.

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C) In order to 1) reduce the operating costs of said television and radio broadcast networks, 2) eliminate man made errors in said television and radio networks; and 3) increase the efficiency in flow of programming in said television and radio networks (i.e. the “motion functions”), it became a desirable trend in the television/radio broadcast industries to have “automated” as much of the broadcast network process as was economically beneficial; e.g. where the term “automated” referred to the unmanned operation of network processes by machines instead of station personal (note lines 7-22 on page 5 of the Yamane et al translation). Early on, the process that was targeted for automation involved: the monitoring of broadcast programming for the purpose of determining faults/failures in the network; the monitoring of broadcasted programming for the purpose of determining subsequent program switching opportunities; the control of program flow and switching according to “confirmed program schedules”; etc, ... (note lines 9-18 on page 6 of Yamane et al translation).

D) One notoriously well known way of automating many of the processes performed by television/radio networks, was through the use of embedded “identification information signals” and “control information signals” within the broadcast network programming such that said embedded signals were used to monitor and identify the network programming being broadcast and were used to provide control over program switching operations of said affiliate stations (note lines 1-6 on page 2 of the Yamane et

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al translation; lines 11-27 on page 13 and lines 1-21 on page 14 of the Yamane et al translation; lines 16-23 on page 15 of the Yamane et al translation; the last six lines on page 18 of the Yamane et al translation; figure 1 of Hetrich; lines 1-10 on page 2 of Hetrich; the last 9 lines on page 10 of Hetrich; the abstract on page 77 of Anderson; and the first full paragraph under the heading "Introduction" on page 77 of Anderson). It is noted that at least the publication of Anderson recognized the fact that the versatility of this type of system automation could be greatly expanded if the embedded signals were capable of being addressed to a specific ones, and/or to specific ones, of the affiliate stations (note: the first three lines under the heading "Applications" on page 80 of Anderson; and lines 1-12 under the heading "Conclusion" on page 82 of Anderson).

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VI. Double Patenting(in detail):

49. Conflicts exist between claims of the following related co-pending applications which includes the present application:

#	Ser. No.	#	Ser. No.	#	Ser. No.
1	397371	2	397582	3	397636
4	435757	5	435758	6	437044
7	437045	8	437629	9	437635
10	437791	11	437819	12	437864
13	437887	14	437937	15	438011
16	438206	17	438216	18	438659
19	439668	20	439670	21	440657
22	440837	23	441027	24	441033
25	441575	26	441577	27	441701
28	441749	29	441821	30	441880
31	441942	32	441996	33	442165
34	442327	35	442335	36	442369
37	442383	38	442505	39	442507
40	444643	41	444756	42	444757
43	444758	44	444781	45	444786
46	444787	47	444788	48	444887

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49	445045	50	445054	51	445290
52	445294	53	445296	54	445328
55	446123	56	446124	57	446429
58	446430	59	446431	60	446432
61	446494	62	446553	63	446579
64	447380	65	447414	66	447415
67	447416	68	447446	69	447447
70	447448	71	447449	72	447496
73	447502	74	447529	75	447611
76	447621	77	447679	78	447711
79	447712	80	447724	81	447726
82	447826	83	447908	84	447938
85	447974	86	447977	87	448099
88	448116	89	448141	90	448143
91	448175	92	448251	93	448309
94	448326	95	448643	96	448644
97	448662	98	448667	99	448794
100	448810	101	448833	102	448915
103	448916	104	448917	105	448976
106	448977	107	448978	108	448979

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109	449097	110	449110	111	449248
112	449263	113	449281	114	449291
115	449302	116	449351	117	449369
118	449411	119	449413	120	449523
121	449530	122	449531	123	449532
124	449652	125	449697	126	449702
127	449717	128	449718	129	449798
130	449800	131	449829	132	449867
133	449901	134	450680	135	451203
136	451377	137	451496	138	451746
139	452395	140	458566	141	458699
142	458760	143	459216	144	459217
145	459218	146	459506	147	459507
148	459521	149	459522	150	459788
151	460043	152	460081	153	460085
154	460120	155	460187	156	460240
157	460256	158	460274	159	460387
160	460394	161	460401	162	460556
163	460557	164	460591	165	460592
166	460634	167	460642	168	460668

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169	460677	170	460711	171	460713
172	460743	173	460765	174	460766
175	460770	176	460793	177	460817
178	466887	179	466888	180	466890
181	466894	182	467045	183	467904
184	468044	185	468323	186	468324
187	468641	188	468736	189	468994
190	469056	191	469059	192	469078
193	469103	194	469106	195	469107
196	469108	197	469109	198	469355
199	469496	200	469517	201	469612
202	469623	203	469624	204	469626
205	470051	206	470052	207	470053
208	470054	209	470236	210	470447
211	470448	212	470476	213	470570
214	470571	215	471024	216	471191
217	471238	218	471239	219	471240
220	472066	221	472399	222	472462
223	472980	224	473213	225	473224
226	473484	227	473927	228	473996

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229	473997	230	473998	231	473999
232	474119	233	474139	234	474145
235	474146	236	474147	237	474496
238	474674	239	474963	240	474964
241	475341	242	475342	243	477547
244	477564	245	477570	246	477660
247	477711	248	477712	249	477805
250	477955	251	478044	252	478107
253	478544	254	478633	255	478767
256	478794	257	478858	258	478864
259	478908	260	479042	261	479215
262	479216	263	479217	264	479374
265	479375	266	479414	267	479523
268	479524	269	479667	270	480059
271	480060	272	480383	273	480392
274	480740	275	481074	276	482573
277	482574	278	482857	279	483054
280	483169	281	483174	282	483269
283	483980	284	484275	285	484276
286	484858	287	484865	288	485282

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289	485283	290	485507	291	485775
292	486258	293	486259	294	486265
295	486266	296	486297	297	487155
298	487397	299	487408	300	487410
301	487411	302	487428	303	487506
304	487516	305	487526	306	487536
307	487546	308	487556	309	487565
310	487649	311	487851	312	487895
313	487980	314	487981	315	487982
316	487984	317	488032	318	488058
319	488378	320	488383	321	488436
322	488438	323	488439	324	488619
325	488620	326	498002	327	511491
328	485773	329	113329		

50. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. The *formerly* attached Appendix provides clear evidence that such conflicting claims exist between the 329 related co-pending applications identified above. However, an analysis of all claims in the 329 related co-pending applications would be an extreme burden on the Office requiring millions of claim comparisons.

In order to resolve the conflict between applications, applicant is required to either:

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(1) file terminal disclaimers in each of the related 329 applications terminally disclaiming each of the other 329 applications, or;

(2) provide an affidavit attesting to the fact that all claims in the 329 applications have been reviewed by applicant and that no conflicting claims exists between the applications. Applicant should provide all relevant factual information including the specific steps taken to insure that no conflicting claims exist between the applications, or;

(3) resolve all conflicts between claims in the above identified 329 applications by identifying how all the claims in the instant application are distinct and separate inventions from all the claims in the above identified 329 applications (note: the five examples in the *formerly* attached **Appendix** are merely illustrative of the overall problem. Only correcting the five identified conflicts would not satisfy the requirement).

51. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969). In re Schneller, 397 F.2d 350, 158 U.S.P.Q. 210 (C.C.P.A. 1968).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

52. All pending claims are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over at least one or more of:

U.S. Patent No. 4,694,490 ('490);

U.S. patent no. 4,704,725 ('725);

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U.S. Patent No. 4,965,825 ('825);

U.S. patent no. 5,109,414 ('414),

U.S. patent no. 5,233,654 ('654),

U.S. patent no. 5,335,277 ('277);

in view of at least one or more of:

-Haselwood et al (US. Patent No. 4,025,851);(see reasoning and level of skill at '81 as discussed in rejection below and above);

-The publication "System and Apparatus for Automatic Monitoring Control of Broadcast Circuits" by Yamane et al;(see reasoning and level of skill at '81 as discussed in rejection below and above);

-Australian Patent document No. 74,619 to Hetrich;(see reasoning and level of skill at '81 as discussed in rejection below and above);

-"A Public Broadcaster's View of Teletext in the United States", Gun; (see discussion and reasoning given below);

-Master Control Techniques" by Marsden vol 9 of the "Journal of the Television Society", '59; (see reasoning and level of skill at '81 as discussed in rejection below and above);

-"The Automation of Small Television Stations" by Young et al vol 80 of the "Journal of the SMPTE", Oct. '71; (see reasoning and level of skill at '81 as discussed in rejection below and above);

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-U.S. Patent 3,761,888 to Flynn;(see reasoning and level of skill at '81 as discussed in rejection below);

-U.S. Patent 3,627,914 to Davis;(see reasoning and level of skill at '81 as discussed in rejection below);

-"Microprocessor For CATV Systems" by Tunmann et al;;(see reasoning and level of skill at '81 as discussed in rejection below);

-U.K. Patent 959,374 to Germany;(see reasoning and level of skill at '81 as discussed in rejection below);

-"Automatic Control of Video Tape Equipment at NBC, Burbank", by Byloff, '59; (see reasoning and level of skill at '81 as discussed in rejection below);

-"Video Banks Automate Delayed Satellite Programming", by Chiddix, '78;(see rejections below);

-"The Digitrol 2 ~ Automatic VTR Programme Control", by Skilton, pages 60-61, of - "International Broadcast Engineer", 3/81;(see reasoning and level of skill at '81 as discussed in rejection below);

-CATV Program Origination and Production, by Schiller et al, '79 (see 892); (this reference merely sets forth, *inter alia*, in one place and in laymen terms, what the level of skill in the art rejection above does in technical terms; so to the extent the above/below rejection is too technical with respect to level of skill in the art at '79, the level is described herein in laymen terms for purpose of clarity);

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-Television Production Handbook, by Zettl, Second Edition, '69; (see reasoning and level of skill at '81 as discussed in rejection below);

-Vikene, WO 80/02093; (Vikene suggests, *inter alia*, a method of transmitting from a broadcaster in addition to the information signal remote control signals, in order to on the receiving side, corresponding to announced programs from the broadcaster which are provided with coded markings, to effect recording of the information on a tape or video recorder. Which markings are also recorded and the recorder is programmable in accordance with the announced programs, so as to be reproduced at a desired time using the recorded markings and the program set in the recorder to sort out the desired information and standard stop the recorder; hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Vikene disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained in the recording of the information on a tape or video recorder);

-Greenberg U.S. patent 4,547,804;(see rejections above considering the benefit of greater network operator control);

-Jeffers et al U.S. patent 4,739,510;(see rejections above considering the benefit of the ability to, *inter alia*, decrypt and hence secure programming);

-"Electronic Image and Tone Return Equipment With Switching System and Remote Control Receiver for Television Decoder" by Werner Diederich DT 23 56 969 A1; (Diederich suggests, *inter alia*, an electronic image and tone return equipment with switching system and

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remote control receiver for television decoder. Hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Diederich disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-Campbell et al WO81/02961; to the extent that the above and below do not address this group of claims and to the extent that Campbell et al do (see above), it would have been obvious for the benefits described above including, *inter alia*, enhanced subscriber station services);

-Campbell et al Aban. Parent Appl. No. 135,987; (same as WO81/02961);

-Campbell et al U.S. patent 4,536,791('791); (same as WO81/02961);

-"Automatic Storage and Retrieval of Videotaped Programs", by Kazama et al, 4/79;(Kazama et al suggests, *inter alia*, a fully automatic storage receive of Videotaped Programs that is computer controlled, so as to constitute tape-traffic and handling system. hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kazama et al disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-"Code accompanying TV program turns on video cassette recorder in proposed scheme"by J Gosch, vol 54 no. 3, February 10, 1981; (Gosch teach, *inter alia*, code accompanying TV programming for turning on a video cassette recorder for delayed or altered schedule programming; as well as for unscheduled broadcasts and for alerting emergencies and

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providing updates. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Gosch disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

- "An Automated Programming Control System For Cable TV", by Stern (80); (Stern suggests, *inter alia*, an automated programming control system for Cable TV having a machine control interface unit containing special circuits for sensing control track pulses, so the system can accurately search for different program material and commercials recorded on one tape; also there is suggested pre-roll of a tape to a specific program; and rewind to a previous segment...so as to "essentially" be "random-access" to the contents of the video tape, under full system control. Hence to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Stern disclosure, it would have been obvious to one having ordinary skill in the art for the convenience);

- "Television Line 21 Encoded Information and It's Impact on Receiver Design", Breeze, Nov. '72; (see rejection above. Hence, to the extent that the above and below discussions do not suggest the particular determined group members of the group of claims, and to the extent that it is met by Breeze (see above) it would have been obvious for the convenience gained);

- "Automatic Switching in the CBC - An Update" by M.W.S. Barlow (Sept. 76); suggests, *inter alia*, **network controlled** automatic switching process. Hence, to the extent that the above

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and below discussions do not suggest the particular determined group members of the group of claims, and to the extent that it is met by the Barlow disclosure, it would have been obvious for the convenience gained);

- "Transmission no Alphanumeric Data by Television", by Millar et al 1 370 535, GB-1974-10; (see discussion and reasoning below);

- Galumbeck et al (U.S. patent no. 4,725,886); (to the extent that the above and below discussion does not suggest the particular determined group members of the group of claims, and to the extent that the difference is met by Galumbeck et al, it would have been obvious for the convenience gained);

- CBS/CCETT North American Broadcast Teletext Specification, 5/81; (suggests, *inter alia*, captioning transmitted to a decoder for superimposing over the program video at a pre-designated time, and selecting a classification of captions so as to be displayed over program video. Hence, to the extent that the above and below do not suggest the particular group of claims and to the extent it is met by the CBS/CCETT disclosure, it would have been obvious for the convenience gained);

- Zaboklicki (DE 2,904,891); (to the extent that the discussion above and below does not suggest the particular determined group members of the group of claims, and to the extent it is met by Zaboklicki, it would have been obvious for the benefit of the convenience gained);

- Nagel (U.S. patent no. 4,064,490); (suggests, *inter alia*, methods and apparatus for the reception, and processing of computer applications. Hence to the extent the above and below

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discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Zaboklicki disclosure, it would have been obvious for the benefit of the convenience gained);

-Kakihara et al (U.S. patent no. 4,251,691);(suggests, *inter alia*, a center-to-end type information service system utilizing the public telephone networks that are fundamental communication media of nation-wide scale in which desired information is requested from the terminal side to the center by means of a telephone set of keyboard and then delivered to and received by a TV receiver, wherein a part of the center functions is transferred together with the exchange function to a subscriber located near the terminal so that the length transmission path connecting the center to terminals becomes shorter and the cost of the whole system can be reduced. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kakihara disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-Hedger et al (Telesoftware-Value Added Teletext); (suggests, *inter alia*, broadcast software and subscriber station computing apparatus having input and output device for interactive user applications. Hence, to the extent the above and below discussions do not

address the particular determined group members of the group of claims, and to the extent the difference is met with the above Kakihara disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

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-“The Vertical Interval: A General-Purpose Transmission Path”, Ted V. Anderson; (See discussion and reasoning below);

“A Public Broadcaster’s View of Teletext in the United States”, Gun; (see discussion and reasoning given below);

-“Automatic Program Recording System, Gaucher, ‘75; (suggests, *inter alia*, an automatic program recording system. Hence, to the extent the above and below discussions do not address the particular determined group members of the group of claims, and to the extent the difference is met with the above Gaucher disclosure, it would have been obvious to one having ordinary skill in the art for the convenience gained);

-U.S. patent 4,290,142, to Schnee et al (to the extent that the above and below discussion does not suggests the particular determined group members of the group of claims, and to the extent that Schnee et al do, it would have been obvious for the benefit of the convenience gained).

See Appendix A.

It is apparent that no pending claim is more than an obvious variation of the patented claims when the teachings discussed throughout this action are considered. Examiner submits Appendix A for illustrative purposes. *Assuming arguendo*, that applicants patents, alone, do not cover the pending claims, they are clearly not independent and distinct when the body of prior art described in this action, *inter alia*, is considered. Here, the differences, to the extent they are supported by ‘81 or are at least obvious over what ‘81, *in fact*, supports, i.e. what applicants, in

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fact, possessed as well as the affiliated cable head end control they are, for the benefits described above, suggested by the prior art (note: Appendix A is merely illustrative of the overall problem).

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VII. Specification:

53. It is recognized that applicants have been filing amendments to the co-pending instant disclosure page's 37, even though it is now more than 18 years after the priority benefit claimed under Section 120. Applicants have identified the '87 disclosed page 14 line 32 through page 15 line 6 as their sole basis of support for this *very late* modification. However, the sole *basis* offered, is rejected. The added material which was not necessarily fully supported by at least one of the intersection of the '87 and '81 disclosures, and the original '87 disclosure is the:

substitution of --units-- for "words" ('87, page 37, line 24); and

substitution of --words-- for "units" ('87, page 37 line 25).

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VIII. Oath/Declaration:

54. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not state that the person making the oath or declaration in a continuation-in-part application filed under the conditions specified in 35 U.S.C. 120 which discloses and claims subject matter in addition to that disclosed in the prior copending application, acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Examiner makes the finding of fact for written description, that applicants have filed yet another continuation-in-part when they filed the instant disclosure under 35 U.S.C. 120, and as a consequence they need to file a new oath or declaration. The circumstance may be unintended or may be intended, *but it is a fact*, and is nevertheless, understood to be the law. For ex, See In re Lund, 376 F.2d 982, 153 U.S.P.Q. 624 (C.C.P.A. 1967), In Lund, the C.C.P.A. stated:

As the expression itself implies, the purpose of "incorporation by reference" is to make one document become a part of another document by referring to the former in the latter in such a manner that it is apparent that **the cited document is part of the referencing document as if it were fully set out therein...** (emphasis added).

Lund, 376 F.2d at 1370-71.

It is understood that judge made *law* holds that when applicants supplemented their disclosure on the date of filing their instant continuation under Section 120 by *inserting into page 1* of the

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instant continuation one of the other co-pending applications of the same chain of co-pending applications and specifically ‘incorporating-by-reference’ co-pending application 08/113,329(‘329), “in it’s entirety” into the instant disclosure, applicants have **in fact conveyed** the instant disclosure as including the entire content of co-pending application 08/113,329. This incorporation “in it[’]s entirety” would necessarily include, *inter alia*, each piece of prior art cited therein.

It appears there is corroboration in the record that it was applicants’ intent to accomplish inserting paper no 21, of ‘329, into instant page 1 through the use of incorporation-by-reference “in it[’]s entirety”. Since such an incorporation-by-reference “in it[’]s entirety” serves to bring paper no. 21, then such an incorporation-by-reference necessarily brings in ***all*** of the contents of the identified application through the use of the term “in it[’]s entirety”.

For example, it is recognized that even though applicants’ representative’s intention, **under Section 120**, may have merely been to include at least the paper no. 21 of that document, he, **under Section 120 in fact**, chose to insert the “entirety” of the ‘329 contents into page 1. That is, even though applicants’ representative could have included paper 21 into a PTO Form 1449, or merely ‘incorporated it by reference’ ***into an response***, he did not.

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IX. Conclusion:

With regard to future interviews, M.P.E.P. 713.03 is hereby called to applicants attention.

54. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

55. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *David E Harvey* whose telephone number is (703) 305-4365. The examiner can normally be reached on Monday through Friday from 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, supervisor Andrew Faile can be reached at (703) 305-4380.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

David E. Harvey
4/5/00


DAVID E. HARVEY
PRIMARY EXAMINER

APPENDIX A

PENDING	PATENT	FINDING
<p>2. A method of transmitting signals comprising the steps of: inputting a signal and a transmission schedule associated with said signal, said transmission schedule including code designating said signal and at least one of: (1) a time at which to transmit said signal; and (2) one of a frequency and an output network on which to transmit said signal; transmitting said signal according to said transmission schedule; selecting one of said code and an identifier associated with said signal; and logging transmission of said signal.</p>	<p>'825 1. In a signal processor system, carrier transmission receiving means; means for demodulating said carrier transmission to detect an information transmission thereon; detector means for detecting an embedded signal in the information transmission and removing it from said information transmission; first control means responsive to said detected signal to activate and/or deactivate equipment external to said signal processor system; second control means activated by said detected signal to monitor the performance and/or output of said first control means; a recorder means for receiving and recording data collected by said monitor means; and control means for instructing said recorder to direct information recorded thereon to a remote site.</p>	<p>For ex, - '825; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification;</p>

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		<p>same as above but substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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APPENDIX A

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<p>3. A method of processing signals to control a plurality of receiver stations, each receiver station having a processor, said method comprising the steps of: receiving an information transmission and communicating said information transmission to a storage device; receiving a control signal which is effective to control a first of said plurality of receiver stations to transmit said information transmission and to control a second of said plurality of receiver stations to identify and process at least a portion of said transmitted information transmission; selecting one of the group consisting of: (1) a time at which to communicate said control signal; and (2) a storage location to which to communicate said control signal; communicating said control signal based on said step of selecting; and storing said information transmission and said control signal at said storage device.</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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APPENDIX A**PENDING****PATENT****FINDING**

	signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.	substitute '725; but, also the 7th patent. - '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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APPENDIX A

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<p>8. A method of encoding signals to control a plurality of receiver stations comprising the steps of: receiving and storing a first information transmission containing one of a video image and audio; receiving a second information transmission, wherein said second information transmission which is effective to control a first of said plurality of receiver stations to transmit said first information transmission and to control a second of said plurality of receiver stations to identify and process at least a portion of said transmitted first information transmission; encoding said second information transmission into a control signal, said control signal for controlling predetermined receiver stations of said plurality of receiver stations by processing locally stored receiver station specific data; and storing said control signal from said step of encoding.</p>	<p>'414</p> <p>26. A method of communicating television programming in a system that consists of a transmission station and a plurality of receiving stations, each receiving station having at least one detector, one video recorder and one video player with at least one said detectors pre-programmed to detect program identification information, consisting of the steps of: transmitting a plurality of units of television pre-programming containing embedded program identification information, causing a selected receiving station to record a selected television program unit, causing said station to position the start of said program unit at the play head of a video player, causing said player thereafter to play and transmit at a selected time thereby to cause said selected station to transmit said selected unit at said selected time.</p> <p>4. In a signal processing system, a receiver/distributor means for receiving programming from a</p>	<p>For ex,</p> <p>- '414;</p> <p>- '725;</p> <p>- '490;</p> <p>- '490 + '725;</p> <p>- '490 + '825;</p> <p>- '490 + '414;</p> <p>- '490 + '654;</p> <p>- '490 + 277;</p> <p>- '725;</p> <p>- '725 + '825;</p> <p>- '825 + '414;</p> <p>- '825 + '654;</p> <p>- '825 + '277; etc.</p> <p>- '490 + Campbell et al;</p> <p>- '490 + Jeffers et al;</p> <p>- '490 + Hazelwood et al;</p> <p>- '490 + Galumbeck ('419) or ('886);</p> <p>- '490 + Gosch;</p> <p>- '490 + Stern;</p> <p>- '490 + Gunn;</p> <p>- '490 + Greenberg ('804);</p> <p>- '490 + Tunmann and J.F. Roche;</p> <p>- '490 + Vikene WO 8002093;</p> <p>- '490 + Barlow;</p> <p>- '490 + Zettl;</p> <p>- '490 + GB 1974 -10 (Millar);</p> <p>-490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	<p>plurality of program sources and for outputting said programming to a matrix switch means,</p> <p>a matrix switch means for receiving said programming from such a receiver/distributor means and for outputting selected portions of said received programming to one or more output devices for further processing or recording, a plurality of detector means for detecting control signals respecting said programming, each detector means being configured to detect said control signals in a predetermined frequency range or at a predetermined location within said programming, a processor means operatively connected to said plurality of detector means for adding data to said control signals identifying each control signal as having been detected by a particular detector means,</p> <p>a buffer means for receiving and storing said control signals and for transferring at least a portion of said control signals for further processing, and a processor means for</p>	<p>same as above but substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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	controlling the output function of said matrix switch and the transfer function of said buffer means.	
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<p>13. A method of communicating data to a network of data receiver stations each of which includes a data receiver, a data storage device, a control signal detector, a computer capable of processing said data, with each of said data receiver stations adapted to detect and respond to at least one control signal and to store said data for subsequent processing, and with at least one of said data receiver stations further including a transmitter, said method comprising the steps of: receiving said data to be transmitted from at least one origination station; receiving said at least one control signal to be transmitted from said origination station, wherein said at least one control signal is effective in said network to control a first of said data receiver stations to transmit said data and to control a second of said, data receiver stations to identify and process at least a portion of said transmitted data; and transmitting an information transmission from said origination station comprising said received data and said received at least one</p>	<p>'825 4. In a signal processor, carrier transmission receiving means; means for demodulating said carrier transmission to detect an information transmission thereon; detector means for determining the presence or absence of an embedded signal in said information transmission within a predetermined time interval and for detecting said signal and removing it from said information transmission; buffer means for organizing said detected signals with detected signals from other detector means into a data stream; recorder means for receiving and recording said stream; control means for instructing said carrier receiving means to receive the appropriate carrier transmission within said predetermined time interval and to direct received said carrier transmission to said demodulating means and said detector means; control means for instructing said recorder to direct information recorded thereon to a</p>	<p>For ex, - '825; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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control signal.	remote site; control means responsive to some of said detected signals in said data stream to activate and/or deactivate equipment external to said signal processor; and control means responsive to some other of said detected signals in said data stream to alter the location in succeeding information transmissions examined for embedded signals.	substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.

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<p>18. A method of communicating mass medium programming to a network of programming receiver stations each of which includes a programming receiver, an output device, a control signal detector, a processor operatively connected to said output device, with each of said programming receiver stations adapted to detect and respond to at least one control signal, and with at least one of said programming receiver stations further including a transmitter, said method comprising the steps of: receiving mass medium programming to be transmitted from an origination station; receiving at least one control signal to be transmitted from said origination station, wherein said at least one control signal is effective in said network to control a first of said programming receiver stations to transmit said mass medium programming and to control a second of said programming receiver stations to identify and process at least a portion of said transmitted mass</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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medium programming; and transmitting an information transmission from said origination station comprising said received mass medium programming and said received at least one control signal.	signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.	substitute '725; but, also the 7th patent. - '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>23. A method of controlling a network of receiver stations each of which includes a signal receiver, a signal detector, said signal detector adapted to receive signals from an information transmission, and a processor programmed to respond to signals from said detector, with at least one of said receiver stations further including a transmitter, said method comprising the steps of: receiving at least one control signal to be transmitted from an origination station, said at least one control signal effective in said network to control a first of said receiver stations to transmit said information transmission and to control a second of receiver stations to identify and process at least a portion of said transmitted information transmission; receiving at least one designation signal to be transmitted from said origination station, said at least one designation signal designating at least one receiver station of said network of receiver stations to which said at least one control signal is addressed;</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725;</p> <p>- '490;</p> <p>- '490 + '725;</p> <p>- '490 + '825;</p> <p>- '490 + '414;</p> <p>- '490 + '654;</p> <p>- '490 + 277;</p> <p>- '825;</p> <p>- '725 + '825;</p> <p>- '825 + '414;</p> <p>- '825 + '654;</p> <p>- '825 + '277; etc.</p> <p>- '490 + Campbell et al;</p> <p>- '490 + Jeffers et al;</p> <p>- '490 + Hazelwood et al;</p> <p>- '490 + Galumbeck ('419) or ('886);</p> <p>- '490 + Gosch;</p> <p>- '490 + Stern;</p> <p>- '490 + Gunn;</p> <p>- '490 + Greenberg ('804);</p> <p>- '490 + Tunmann and J.F. Roche;</p> <p>- '490 + Vikene WO 8002093;</p> <p>- '490 + Barlow;</p> <p>- '490 + Zettl;</p> <p>- '490 + GB 1974 -10 (Millar);</p> <p>-490 + CBS/CCETT North American Broadcast Teletext Specification;</p> <p>same as above but</p>
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and transmitting said information transmission from said origination station, said information transmission comprising said received at least one control signal and said received at least one designation signal.	signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.	substitute '725; but, also the 7th patent. - '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>25. A method of processing signals in a network, said network having at least one transmitter station and at least one receiver station, said method comprising the steps of: inputting a signal and a transmission schedule associated with said signal, said schedule comprising at least one of: (1) a time at which to transmit said signal; and (2) one of a frequency and an output network on which to transmit said signal; transmitting said signal according to said schedule; selecting at least a portion of information communicated one of to said transmitter and from said transmitter; and comparing said selected at least a portion of information to information of said schedule, thereby to determine proper transmission of said signal according to said schedule; wherein said method processes signals in said network.</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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	signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.	substitute '725; but, also the 7th patent. - '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>26. A method of transmitting signals in a network, said network having a transmitter station and a receiver station, said method comprising the steps of: inputting a signal and a transmission schedule associated with said signal, said schedule including at least one of: (1) a time at which to transmit said signal; and (2) one of a frequency and an output network on which to transmit said signal; transmitting said signal according to said schedule; selecting a portion of said signal; and comparing said selected portion of said signal to information stored in said network; and determining one of a transmission time and a transmission location of said signal.</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for receiving the programming and the programming identification information;</p>	<p>For ex,</p> <p>- '277; - '825; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + '277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>31. A method of processing a signal in a system comprising a transmitter station and a receiver station, said method comprising the steps of: inputting to said transmitter station said signal and a transmission schedule associated with said signal, said signal including a first identifier, said schedule including a second identifier and at least one of: (1) a time at which to transmit said signal; and (2) one of a frequency and an output network on which to transmit said signal; transmitting said signal to said receiver station according to said schedule based on a comparison of said first identifier and said second identifier; selecting a portion of said signal at said receiver station; and inputting said selected portion of said signal to a processor for gathering statistics on programming availability, use or usage.</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for receiving the programming and the programming identification information; and a controller operatively</p>	<p>For ex,</p> <p>- '277; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information , and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>36. A method of processing a signal in a system having a transmitter station and a receiver station, said method comprising the steps of: inputting said signal at said transmitter station, said signal including programming and an identifier; inputting a schedule at said transmitter station, said schedule including at least one of: (1) a time at which to transmit a portion of said signal; and (2) one of a frequency and an output network on which to transmit a portion of said signal; transmitting said portion of signal from said transmitter station according to said schedule based on a comparison performed with said identifier; processing said signal to gather at least one statistic on availability, use or usage of said programming at said receiver station; and identifying one of said signal and content of said signal at said receiver station on the basis of said identifier.</p>	<p>'825</p> <p>1. In a signal processor system, carrier transmission receiving means; means for demodulating said carrier transmission to detect an information transmission thereon; detector means for detecting an embedded signal in the information transmission and removing it from said information transmission; first control means responsive to said detected signal to activate and/or deactivate equipment external to said signal processor system; second control means activated by said detected signal to monitor the performance and/or output of said first control means; a recorder means for receiving and recording data collected by said monitor means; and control means for instructing said recorder to direct information recorded thereon to a remote site.</p>	<p>For ex,</p> <p>- '825; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc.. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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		<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>41. A method of communicating a plurality of signals, said method comprising the steps of: inputting a signal, said signal including programming and an identifier; inputting a schedule including a designation for each of said plurality of signals at least one of: (1) an approximate transmission time, and (2) one of a transmission frequency and an output network; transferring said signal to a distribution system of a transmission station according to said schedule; identifying one of said signal based on said identifier; and outputting said identifier from a storage location to a remote location.</p>	<p>'277 14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for receiving the programming and the programming identification information; and a controller operatively</p>	<p>For ex, - '277; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification;</p>

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	connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information , and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>46. A method of transmitting one of a plurality of signals comprising the steps of: inputting a signal, said signal including programming and an identifier; inputting a schedule to a controller for controlling a transmission station, said schedule including for each of said plurality of signals at least one of: (1) an approximate transmission time; and (2) one of a transmission frequency and an output network; transmitting said signal according to said schedule; identifying said signal at a receiver station on the basis of said identifier; and outputting said identifier to a remote location.</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for receiving the programming and the programming identification information; and a controller operatively</p>	<p>For ex,</p> <p>- '277; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); -490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information , and passing programming to either said output device or to said storage device based upon said scheduled information	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>64. A method of communicating a signal comprising the steps of: inputting a signal, said signal including (i) specific programming including one of video, audio and data programming and (ii) an embedded identifier; inputting said signal to a switch and a processor; determining said specific programming inputted to said switch; controlling said switch to communicate said specific programming according to timing instructions; and delaying communication of said signal.</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725;</p> <p>- '490;</p> <p>- '490 + '725;</p> <p>- '490 + '825;</p> <p>- '490 + '414;</p> <p>- '490 + '654;</p> <p>- '490 + 277;</p> <p>- '825;</p> <p>- '725 + '825;</p> <p>- '825 + '414;</p> <p>- '825 + '654;</p> <p>- '825 + '277; etc.</p> <p>- '490 + Campbell et al;</p> <p>- '490 + Jeffers et al;</p> <p>- '490 + Hazelwood et al;</p> <p>- '490 + Galumbeck ('419) or ('886);</p> <p>- '490 + Gosch;</p> <p>- '490 + Stern;</p> <p>- '490 + Gunn;</p> <p>- '490 + Greenberg ('804);</p> <p>- '490 + Tunmann and J.F. Roche;</p> <p>- '490 + Vikene WO 8002093;</p> <p>- '490 + Barlow;</p> <p>- '490 + Zettl;</p> <p>- '490 + GB 1974 -10 (Millar);</p> <p>- '490 + CBS/CCETT North American Broadcast Teletext Specification;</p> <p>same as above but</p>

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	<p>signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.</p> <p>4. A method according to claim 3, further including the step of transmitting a modification control signal to the computers which are programmed to process modification control signals, and causing said last named computers to modify their respective user specific signals in response thereto.</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>65. A method of processing signals comprising the steps of: inputting a plurality of signals to a transmission station, wherein each of said plurality of signals includes (i) one of specific video programming, audio programming, and data programming and (ii) an identifier; inputting at said transmission station each of said plurality of signals to a switch having a plurality of output channels; processing each signal of said plurality of signals to determine that each of said one of specific video programming, audio programming, and data programming is input to said switch; comparing said identifier of each signal of said plurality of signals to predetermined data to determine when to transmit each signal of said plurality of signals; and communicating an instruction to delay communication of one signal of said plurality of signals.</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex,</p> <p>- '725;</p> <p>- '490;</p> <p>- '490 + '725;</p> <p>- '490 + '825;</p> <p>- '490 + '414;</p> <p>- '490 + '654;</p> <p>- '490 + 277;</p> <p>- '825;</p> <p>- '725 + '825;</p> <p>- '825 + '414;</p> <p>- '825 + '654;</p> <p>- '825 + '277; etc.</p> <p>- '490 + Campbell et al;</p> <p>- '490 + Jeffers et al;</p> <p>- '490 + Hazelwood et al;</p> <p>- '490 + Galumbeck ('419) or ('886);</p> <p>- '490 + Gosch;</p> <p>- '490 + Stern;</p> <p>- '490 + Gunn;</p> <p>- '490 + Greenberg ('804);</p> <p>- '490 + Tunmann and J.F. Roche;</p> <p>- '490 + Vikene WO 8002093;</p> <p>- '490 + Barlow;</p> <p>- '490 + Zettl;</p> <p>- '490 + GB 1974 -10 (Millar);</p> <p>- '490 + CBS/CCETT North American Broadcast Teletext Specification;</p> <p>same as above but</p>
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	<p>signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.</p> <p>4. A method according to claim 3, further including the step of transmitting a modification control signal to the computers which are programmed to process modification control signals, and causing said last named computers to modify their respective user specific signals in response thereto</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>70. A method of communicating a signal comprising the steps of: inputting a signal to a switch at a transmission station, said signal including an identifier and one of video and audio, said switch having a plurality of output channels; comparing said identifier to a predetermined datum to determine one of (i) a time to transmit said signal and (ii) whether to delay transmission of said signal; selecting a storage location; and communicating said signal to said selected storage location.</p>	<p>'277 14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for receiving the programming and the programming</p>	<p>For ex, -'725; -'490; -'490 + '725; -'490 + '825; -'490 + '414; -'490 + '654; -'490 + 277; -'825; -'725 + '825; -'825 + '414; -'825 + '654; -'825 + '277; etc. -'490 + Campbell et al; -'490 + Jeffers et al; -'490 + Hazelwood et al; -'490 + Galumbeck ('419) or ('886); -'490 + Gosch; -'490 + Stern; -'490 + Gunn; -'490 + Greenberg ('804); -'490 + Tunmann and J.F. Roche; -'490 + Vikene WO 8002093; -'490 + Barlow; -'490 + Zettl; -'490 + GB 1974 -10 (Millar); -490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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	identification information; and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>75. A method of processing a plurality of signals comprising the steps of: inputting said plurality of signals at a transmission station, each signal of said plurality of signals comprising an identifier and at least one of video programming, audio programming and data programming; inputting said plurality of signals to a switch having a plurality of output channels; processing each of said plurality of signals to determine (i) which of said at least one of video programming, audio programming and data programming is input to said switch and (ii) when to transmit each of said plurality of signals; transmitting said plurality of signals to a processor in a distribution system, said processor having a plurality of output ports; communicating said plurality of signals to at least one remote location; determining that transmission of a specific signal of said plurality of signals should be delayed; selecting a storage location; and communicating said specific signal to said</p>	<p>'277 14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for</p>	<p>For ex, -'277; -'725; -'490; -'490 + '725; -'490 + '825; -'490 + '414; -'490 + '654; -'490 + '277; -'825; -'725 + '825; -'825 + '414; -'825 + '654; -'825 + '277; etc. -'490 + Campbell et al; -'490 + Jeffers et al; -'490 + Hazelwood et al; -'490 + Galumbeck ('419) or ('886); -'490 + Gosch; -'490 + Stern; '490 + Gunn; -'490 + Greenberg ('804); -'490 + Tunmann and J.F. Roche; -'490 + Vikene WO 8002093; -'490 + Barlow; -'490 + Zettl; -'490 + GB 1974 -10 (Millar); -490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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selected storage location.	receiving the programming and the programming identification information; and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>80. A method of processing signals in a system including a transmission station and a receiver station, said method comprising the steps of: programming said receiver station to store user data and select said signals on the basis of said user data; inputting a programming signal and a comparison signal at said transmission station, said comparison signal designating a transmission schedule; inputting said transmission schedule, said transmission schedule comprising for each of said signals at least two of: (1) a transmission time; (2) an identifier for one of a transmission frequency and an output network; and (3) a signal identifier; transmitting said programming signal and said comparison signal from said transmission station in accordance with said transmission schedule based on said comparison signal; selecting information detected in one of said programming signal and said comparison signal at said receiver station; comparing said selected information to said user data; and receiving a portion of an information</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for</p>	<p>For ex,</p> <p>- '277; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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transmission containing said programming signal and said comparison signal at said receiver station based on said step of comparing.	receiving the programming and the programming identification information; and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.

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<p>85. A method of processing a plurality of signals in a system including a transmission station and a receiver station, wherein said receiver station is remote from said transmission station, said method comprising the steps of: programming said receiver station to store user data; inputting said plurality of signals to said transmission station; inputting a transmission schedule associated with said plurality of signals, said transmission schedule identifying a specific schedule for each of said plurality of signals, each said specific schedule designating for one of said plurality of signals at least two of: (1) a transmission time; (2) one of a transmission frequency and an output network; and (3) an identifier; transmitting one of said plurality of signals in accordance with said transmission schedule; causing said receiver station to store one of said plurality of signals based on said user data.</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for</p>	<p>For ex,</p> <p>- '277; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + '277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	receiving the programming and the programming identification information; and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>87. A method of communicating a plurality of signals in a network, said network including a transmission station and a remote receiver station, said method comprising the steps of: inputting said plurality of signals at said transmission station; inputting a communication schedule associated with said plurality of signals, said communication schedule designating for each signal of said plurality of signals at least two of: (1) a transmission time; (2) one of a transmission frequency and an output network; and (3) a designation code; communicating each signal of said plurality of signals in accordance with said communication schedule; inputting a portion of said plurality of signals to a computer at a time when specific information content does not exist; generating said specific information content in response to said inputted portion of said plurality of signals; and causing said receiver station to output said specific information content.</p>	<p>'277</p> <p>14. A television receiver station comprising: a plurality of receiver/distributors with at least one receiving a television programming transmission, each transmission including the television programming and programming identification signals identifying the programming; an output device for displaying television programming or transmitting television programming to a remote subscriber station; a storage device for receiving and storing television programming; means for selectively receiving television programming from either one of said receiver/distributors or said storage device and selectively transferring the received television programming to either said storage device or to said output device; a processor operatively connected to at least one of said plurality of receiver/distributors for</p>	<p>For ex,</p> <p>- '277; - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + '277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification;</p>
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	receiving the programming and the programming identification information; and a controller operatively connected to said processor for receiving specific unit programming identification information, identifying a specific unit of television programming received at a specific receiver/distributor by comparing of received identification information to previously received scheduled program identification information, and passing programming to either said output device or to said storage device based upon said scheduled information.	same as above but substitute '725; but, also the 7th patent. -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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<p>88. A method of generating information content in a network, said network including a transmission station and a remote receiver station, said method comprising the steps of: inputting a control signal at said transmission station; inputting a schedule associated with said control signal, said schedule designating two of: (1) a transmission time; (2) one of a transmission frequency and an output network; and (3) an identifier; communicating said control signal in accordance with said schedule at a time when information content does not exist; inputting said control signal to a computer based on said step of communicating; generating said information content in response to said control signal, said information content including one of video and a graphic; and causing a signal generator to add one of said control signal and said generated information content to an output containing television programming at one of said transmission station and said remote receiver station.</p>	<p>'825</p> <p>14. A method of processing signals including: (a) the step of receiving a carrier transmission; (b) the step of demodulating said carrier transmission to detect an information transmission thereon; (c) the step of detecting and identifying embedded signals on said information transmission; (d) the step of passing said embedded signals to a device or devices to be controlled based on instructions identified within said embedded signals; (e) the step of controlling said devices based on the instructions within said embedded signals; and (f) the step of recording the receipt of and passing to said devices of said embedded signals.</p> <p>19. A method of processing signals as claimed in claim 14 including the step of adding a second signal to the information transmission.</p>	<p>For ex,</p> <p>- '825; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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		<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>93. A method of processing signals in a network including a transmitter station and a user station, said user station having a processor, said method comprising the steps of: inputting a plurality of signals at said transmitter station, said plurality of signals including a programming signal and a processor instruction; inputting a schedule associated with said plurality of signals, said schedule including a designation for each of said plurality of signals of at least two of: (1) a transmission time; (2) one of a transmission frequency and an output network; and (3) an identifier; communicating said programming signal in accordance with said schedule; receiving said plurality of signals at said user station and outputting programming contained in said programming signal; inputting a user response to information contained in said programming signal; and processing said user response in accordance with said processor instruction.</p>	<p>'725 3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific signals to their associated</p>	<p>For ex, -'725; -'490; -'490 + '725; -'490 + '825; -'490 + '414; -'490 + '654; -'490 + 277; -'825; -'725 + '825; -'825 + '414; -'825 + '654; -'825 + '277; etc. -'490 + Campbell et al; -'490 + Jeffers et al; -'490 + Hazelwood et al; -'490 + Galumbeck ('419) or ('886); -'490 + Gosch; -'490 + Stern; '490 + Gunn; -'490 + Greenberg ('804); -'490 + Tunmann and J.F. Roche; -'490 + Vikene WO 8002093; -'490 + Barlow; -'490 + Zettl; -'490 + GB 1974 -10 (Millar); -490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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	<p>output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.</p> <p>4. A method according to claim 3, further including the step of transmitting a modification control signal to the computers which are programmed to process modification control signals, and causing said last named computers to modify their respective user specific signals in response thereto.</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>98. A method of processing a plurality of signals in a system, wherein said system includes a transmission station and a remote receiver station, said method comprising the steps of: inputting to said system said plurality of signals, wherein said plurality of signals includes multimedia signals, wherein said multimedia signals include (i) one of video programming and audio programming and (ii) one of computer programming and programming to be printed; inputting said multimedia signals to one of a switch and a processor at said transmission station; controlling said one of a switch and a processor to communicate said multimedia signals to said remote receiver station according to a timing instruction; determining one of a programming kind and subject matter contained in said multimedia signals; delaying one of processing and communication of a portion of said multimedia signals; and outputting a multimedia presentation based on said multimedia</p>	<p>'725 3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex, - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); -490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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signals.	<p>signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.</p> <p>4. A method according to claim 3, further including the step of transmitting a modification control signal to the computers which are programmed to process modification control signals, and causing said last named computers to modify their respective user specific signals in response thereto.</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>103. A method of processing signals in a network, said network including a transmitter station and a receiver station, said method comprising the steps of: inputting a plurality of signals to one of a switch and a computer at said transmitter station, wherein said plurality of signals include multimedia signals, each of said multimedia signals including at least one of video, audio and data programming; controlling said one of a switch and a computer to communicate said plurality of signals to said receiver station in accordance with a timing instruction; decrypting one of said plurality of signals; passing said plurality of signals selectively to a processor at said receiver station; and outputting a multimedia presentation at said receiver station based on said multimedia signals.</p>	<p>'825</p> <p>1. In a signal processor system, carrier transmission receiving means; means for demodulating said carrier transmission to detect an information transmission thereon; detector means for detecting an embedded signal in the information transmission and removing it from said information transmission; first control means responsive to said detected signal to activate and/or deactivate equipment external to said signal processor system; second control means activated by said detected signal to monitor the performance and/or output of said first control means; a recorder means for receiving and recording data collected by said monitor means; and control means for instructing said recorder to direct information recorded thereon to a remote site.</p> <p>6. The apparatus as claimed in claim 1 wherein the embedded signal is encrypted and including a decrypter means for decrypting said signal.</p>	<p>For ex,</p> <p>- '825; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '725; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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		<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>108. A method of processing signals in a network, said network including a transmitter station and a receiver station, said method comprising the steps of: inputting a plurality of signals to one of a switch and a computer at said transmitter station, wherein said plurality of signals includes two of video, audio and data programming; controlling said one of a switch and a computer to communicate said plurality of signals to said receiver station in accordance with a timing instruction; passing said plurality of signals selectively to a processor at said receiver station; controlling said processor on the basis of information contained in said plurality of signals; and outputting a multimedia presentation at said receiver station based on said step of controlling said processor.</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>For ex,</p> <p>- '490; - '725; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to- overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>119. A method of processing multimedia signals in a network including a transmission station and a receiver station, said receiver station having a storage device for storing multimedia programming, said storage device including two of an optical disk player, a video recorder/player, and a computer, said method comprising: inputting to said network a plurality of signals, wherein at least two of said plurality of signals are multimedia signals, each of said multimedia signals including receiver station specific one of video, audio and data programming, said multimedia signals further including an embedded identifier; inputting said plurality of signals to a switch and a processor at said transmission station; controlling said switch to communicate said plurality of signals to said receiver station according to timing instructions; identifying programming inputted to said switch; communicating an instruct-to-coordinate signal to said receiver station; delaying at least one of processing and</p>	<p>'725 3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected stations, and causing said last named computers to generate and transmit their user specific</p>	<p>For ex, - '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - '490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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<p>communication of said multimedia signals in response to one of said instruct-to-coordinate signal and programming stored at said processor; and presenting multimedia programming to a receiver at said receiver station at one of a specific time and a specific place in response to said instruct-to-coordinate signal, said multimedia programming contained in said multimedia signals.</p>	<p>signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.</p> <p>4. A method according to claim 3, further including the step of transmitting a modification control signal to the computers which are programmed to process modification control signals, and causing said last named computers to modify their respective user specific signals in response thereto.</p>	<p>substitute '725; but, also the 7th patent.</p> <p>- '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.</p>
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<p>120. A method of processing signals to cause a plurality of receiver stations to function in different fashions, each of said plurality of receiver stations having a processor, said method comprising the steps of: receiving an information transmission and communicating said information transmission to a storage device; receiving a signal which is operative to cause each of said plurality of receiver stations to identify and process a portion of said information transmission, wherein said plurality of receiver stations one of (i) process a portion of said information transmission in different fashions and (ii) process different portion of said information transmission; selecting one of the group consisting of: (1) a time at which to communicate said signal; and (2) a storage location to which to communicate said signal; communicating said signal one of (i) at a selected time and (ii) to a selected storage location based on said step of selecting; and storing said information transmission and said signal at said storage device,</p>	<p>'725</p> <p>1. A method of communicating data to a multiplicity of receiver stations, each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-process signal to said computers to cause each of said computers to process data in accordance with its associated special user application, transmitting an instruct-to-output signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-output signal at selected</p>	<p>For ex,</p> <p>- '725; - '490; - '490 + '725; - '490 + '825; - '490 + '414; - '490 + '654; - '490 + 277; - '825; - '725 + '825; - '825 + '414; - '825 + '654; - '825 + '277; etc. - '490 + Campbell et al; - '490 + Jeffers et al; - '490 + Hazelwood et al; - '490 + Galumbeck ('419) or ('886); - '490 + Gosch; - '490 + Stern; - '490 + Gunn; - '490 + Greenberg ('804); - '490 + Tunmann and J.F. Roche; - '490 + Vikene WO 8002093; - '490 + Barlow; - '490 + Zettl; - '490 + GB 1974 -10 (Millar); - 490 + CBS/CCETT North American Broadcast Teletext Specification; same as above but</p>
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wherein said method processes signals to causes said plurality of receiver stations to function in different fashions.	receiver stations and coupling said instruct-to-output signal to the computers associated with said selected stations, and causing said last named computers simultaneously to output their user specific signals to their associated output devices in response to said instruct-to-output signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user.	substitute '725; but, also the 7th patent. - '490 + Yamane et al; - '490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.
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APPENDIX B

APRIL 11, 2000

ALLEGED "GROUP"		ACTIVE	INACTIVE	CONSOLIDATION STATUS OF ACTIVE CASE
1	ADVT	n/a	n/a	n/a
2	ASCO	n/a	n/a	n/a
3	ASRE	441,701	441,027	CONSOLIDATED
4	BCON	473,484	440,837	CONSOLIDATED
5	BUDG	n/a	n/a	n/a
6	CHAN	n/a	n/a	n/a
7	CLER	n/a	n/a	n/a
8	COMB	466,894	469,078	CONSOLIDATED W/OUT MAPPING
9	DATA	397,636	441,996	CONSOLIDATED
10	DECR	449,263	449,431	CONSOLIDATED
11	DIGI	435,757	478,794	CONSOLIDATED
12	DOWN	470,051	469,106	NONE TO DATE
13	EMBD	n/a	n/a	n/a
14	ERRO	n/a	n/a	n/a
15	FANA	n/a	n/a	n/a
16	FCOM	474,139	441,880	NONE TO DATE
17	FNAV	437,864	444,756	NONE TO DATE
18	FNET	488,439	487,893	CONSOLIDATED
19	HEAD	442,335	442,165	NONE TO DATE
20	HOST	437,791	438,206	CONSOLIDATED
21	I2CM	446,431	437,045	CONSOLIDATED
22	I2CR	486,258	447,621	CONSOLIDATED
23	I2GE	511,491	438,659	NONE TO DATE
24	I2GR	437,635	441,577	NONE TO DATE
25	I2RE	487,851	483,174	CONSOLIDATED
26	IMAG	n/a	n/a	n/a
27	INTE	470,571	471,024	CONSOLIDATED
28	METE	452,395	483,980	CONSOLIDATED
29	MICR	n/a	n/a	n/a
30	MKTR	474,964	480,059	CONSOLIDATED
31	MSG	n/a	n/a	n/a
32	MSTA	438,216	483,269	NONE TO DATE
33	MULT	487,526	437,044	CONSOLIDATED
34	NAUT	477,805	437,937	CONSOLIDATED
35	NAVI	459,216	480,383	CONSOLIDATED
36	NCOM	n/a	n/a	n/a
37	NECA	475,342	445,290	CONSOLIDATED
38	NGEN	n/a	n/a	n/a
39	OPNS	442,383	488,620	NONE TO DATE
40	PARA	488,378	477,564	NONE TO DATE
41	POLI	n/a	n/a	n/a
42	PROB	n/a	n/a	n/a
43	RCOM	449,281	449,800	CONSOLIDATED
44	RECO	n/a	n/a	n/a
45	REST	498,002	442,335	NONE TO DATE
46	SCHE	n/a	n/a	n/a
47	SETT	449,523	487,649	CONSOLIDATED
48	SKIP	n/a	n/a	n/a
49	STUD	474,146	483,054	CONSOLIDATED
50	SWIT	469,612	442,507	NONE TO DATE
51	SYNC	449,532	449,110	CONSOLIDATED
52	TELE	n/a	n/a	n/a
53	TIME	446,494	446,429	NONE TO DATE
54	TRAN	487,536	482,573	CONSOLIDATED
55	VERI	448,326	447,711	NONE TO DATE
56	VIEW	485,283	470,476	CONSOLIDATED